

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458087

Luminaire Tested: **GALN-SA9C-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52831 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

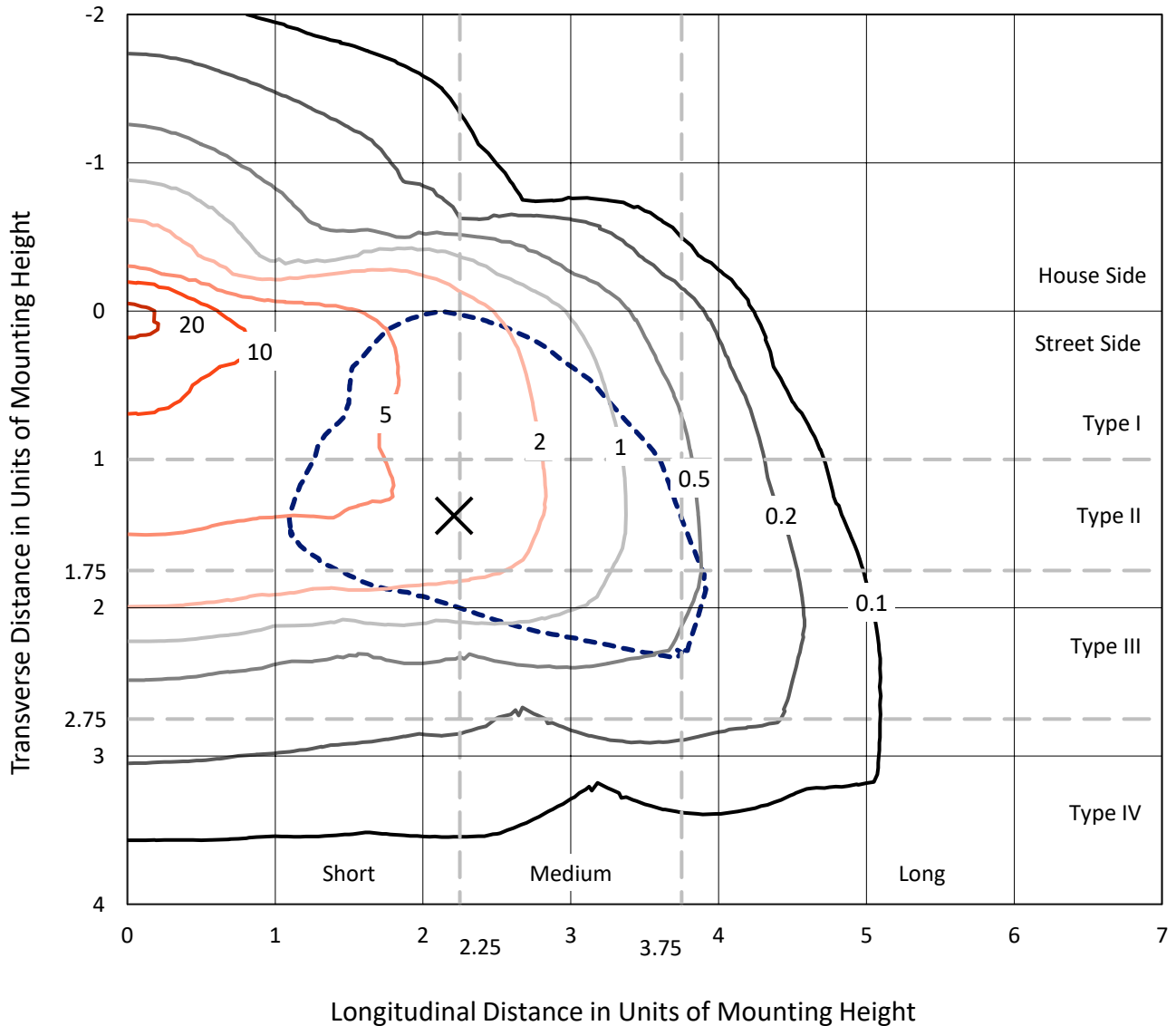
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

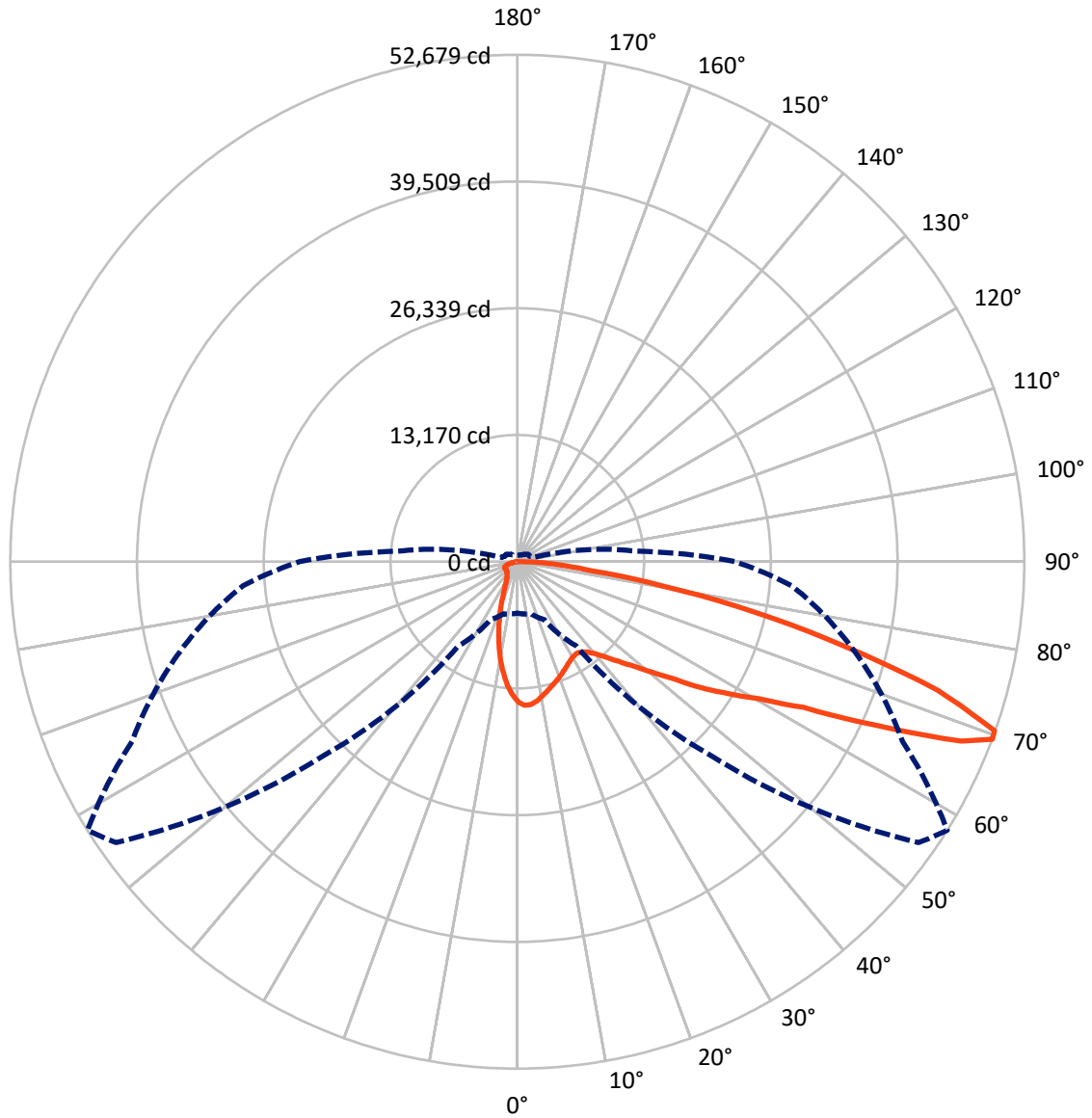
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7742.4	0.0	7742.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	45088.6	0.0	45088.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	52831.0	0.0	52831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1239.8	2.3
10°-20°	2722.5	5.2
20°-30°	3517.5	6.7
30°-40°	4568.5	8.6
40°-50°	6642.0	12.6
50°-60°	10598.4	20.1
60°-70°	14158.2	26.8
70°-80°	8161.6	15.4
80°-90°	1222.4	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	52831.0	100.0
0°-180°	52831.0	100.0

Coefficient of Utilization



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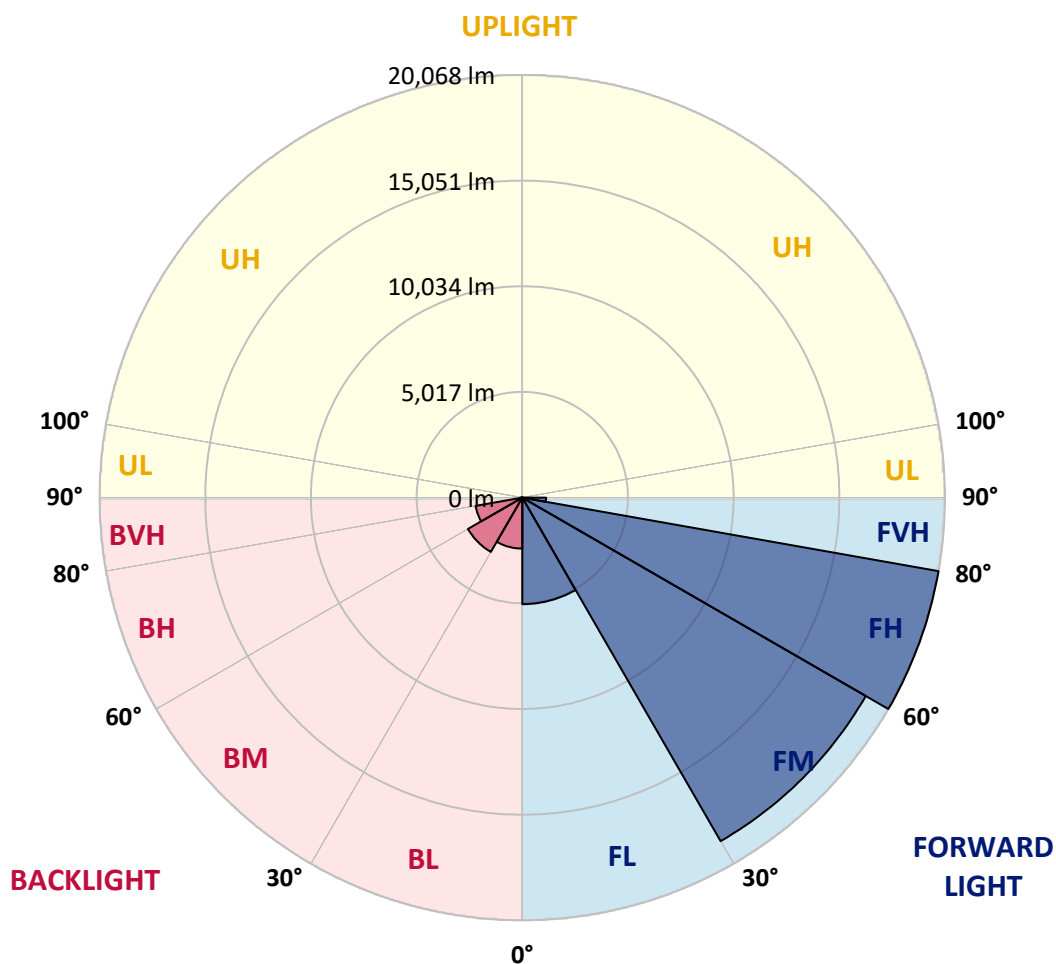
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5059.9	9.6			
FM	(30°-60°)	18831.5	35.6			
FH	(60°-80°)	20068.5	38.0			G5
FVH	(80°-90°)	1128.8	2.1			G5
BL	(0°-30°)	2420.0	4.6	B3/2500		
BM	(30°-60°)	2977.4	5.6	B3/5000		
BH	(60°-80°)	2251.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	93.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4
2.5°	15141.5	15182.8	15171.0	15156.3	15132.7	15067.9	14961.8	14944.1	14876.4	14732.0	14552.3
5°	14908.8	14944.1	14947.1	14967.7	14997.2	14985.4	14908.8	14899.9	14799.8	14605.3	14304.8
7.5°	14110.3	14157.4	14260.6	14375.5	14478.6	14575.8	14599.4	14614.1	14552.3	14328.3	13927.6
10°	13211.6	13258.8	13305.9	13476.8	13730.2	13971.8	14172.2	14198.7	14213.4	14007.2	13518.1
12.5°	12215.8	12313.0	12413.2	12666.6	13005.4	13385.5	13739.0	13795.0	13895.2	13739.0	13164.5
15°	11370.1	11470.3	11614.7	11841.6	12251.1	12799.1	13297.1	13388.4	13585.8	13506.3	12834.5
17.5°	10783.8	10819.2	10919.3	11178.6	11620.6	12198.1	12864.0	13046.6	13361.9	13341.3	12551.6
20°	10321.2	10365.4	10427.3	10586.4	11046.0	11655.9	12460.3	12696.0	13123.3	13194.0	12271.7
22.5°	10126.8	10159.2	10150.3	10235.8	10548.1	11161.0	12050.8	12330.7	12911.1	13093.8	12012.5
25°	10138.6	10168.0	10123.8	10103.2	10288.8	10724.9	11623.5	11980.0	12740.2	13026.0	11776.7
27.5°	10336.0	10356.6	10274.1	10191.6	10206.3	10453.8	11270.0	11664.8	12595.8	13055.5	11579.3
30°	10601.1	10639.4	10586.4	10486.2	10377.2	10389.0	11043.1	11432.0	12528.1	13158.6	11485.1
32.5°	10942.9	10978.3	10954.7	10875.2	10733.7	10577.6	10987.1	11346.6	12534.0	13367.8	11464.4
35°	11302.4	11373.1	11411.4	11405.5	11290.6	11019.5	11208.1	11505.7	12675.4	13718.4	11585.2
37.5°	11709.0	11767.9	11932.9	12039.0	11932.9	11617.6	11706.0	11912.3	12987.7	14225.2	11850.4
40°	12103.8	12192.2	12433.8	12763.8	12722.5	12445.6	12466.2	12601.7	13538.7	14979.5	12369.0
42.5°	12516.3	12622.4	13043.7	13532.8	13630.0	13414.9	13470.9	13591.7	14322.4	16025.5	13258.8
45°	13046.6	13173.3	13691.9	14301.8	14684.8	14552.3	14711.4	14770.3	15371.4	17386.7	14431.5
47.5°	13730.2	13877.5	14516.9	15277.1	15819.2	15940.0	16217.0	16181.6	16670.7	18998.4	15951.8
50°	14882.2	14964.7	15568.8	16343.7	17089.1	17634.2	17934.7	17990.7	18282.4	20565.8	17651.9
52.5°	16252.3	16326.0	16762.1	17439.7	18373.7	19528.7	20271.2	20088.5	20159.2	22475.1	19640.7
55°	17793.3	17917.0	18194.0	18644.8	19855.8	21555.8	23046.7	23090.9	22307.2	24301.9	21547.0
57.5°	18986.6	19195.8	19670.1	20312.5	21847.5	23809.8	25813.4	25842.8	24841.1	26252.4	23650.7
60°	18385.5	18633.0	19717.3	21281.8	24461.0	27743.3	29119.2	28951.3	27307.2	28474.0	26217.0
62.5°	15792.7	15836.9	17413.2	19858.7	25265.4	33005.5	34039.7	33329.6	30598.3	31290.7	28824.6
65°	10221.0	10509.8	11759.1	15185.7	22622.4	35925.4	42660.9	41019.7	35212.4	34487.6	31007.9
67.5°	6452.6	6378.9	6897.5	8671.2	15559.9	33353.2	50018.0	49758.7	41246.6	36505.9	30486.4
69°	5350.7	5433.2	5609.9	6647.1	10707.2	28476.9	50887.2	52678.6	44172.4	36346.7	28591.8
70°	4852.7	4891.0	5076.6	5892.8	8261.7	23851.1	49461.2	52599.1	45321.5	35680.9	27218.8
72.5°	3850.9	3848.0	4166.2	4902.8	6175.6	13615.3	40613.1	45666.2	44036.8	32581.3	22489.8
75°	2925.8	2972.9	3323.5	4148.5	5689.5	7439.7	28341.4	35168.2	35171.1	25733.8	14033.7
77.5°	2109.6	2139.1	2548.6	3482.6	5359.5	6031.3	18877.6	25224.1	23712.6	11791.5	4410.8
80°	1381.9	1399.5	1711.9	2757.8	4832.1	5689.5	11193.4	15439.1	11184.5	3129.1	1458.5
82.5°	757.2	845.6	1046.0	1785.5	3877.5	5256.4	6803.2	7813.8	4195.7	1393.6	760.2
85°	380.1	403.7	589.3	1043.0	2533.9	4348.9	4737.8	4481.5	2165.6	692.4	394.8
87.5°	112.0	141.4	244.6	403.7	1028.3	2265.8	2637.0	2366.0	833.8	250.4	82.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4	14599.4
2.5°	14478.6	14425.6	14189.8	13977.7	13783.2	13577.0	13403.2	13249.9	13264.7	13267.6	13111.5
5°	14148.6	14027.8	13579.9	13161.6	12808.0	12360.1	11977.1	11729.6	11605.9	11440.9	11499.8
7.5°	13700.7	13468.0	12846.3	12150.9	11499.8	10919.3	10288.8	9855.7	9578.7	9310.6	9346.0
10°	13238.2	12864.0	11959.4	11040.1	10197.5	9269.4	8465.0	7775.5	7262.9	7071.4	6944.7
12.5°	12763.8	12271.7	11122.6	9899.9	8736.1	7625.3	6485.0	5745.5	5179.8	4879.2	4917.5
15°	12330.7	11732.6	10250.5	8759.6	7248.1	5925.2	4787.9	4083.7	3688.9	3606.4	3653.5
17.5°	11930.0	11146.2	9434.4	7651.8	5886.9	4443.2	3597.6	3199.8	3040.7	2996.5	2993.5
20°	11517.5	10648.3	8518.0	6467.3	4587.5	3444.3	2952.3	2766.7	2737.2	2754.9	2757.8
22.5°	11099.1	10032.5	7575.2	5291.7	3653.5	2816.8	2581.0	2531.0	2554.5	2595.8	2601.7
25°	10713.1	9490.3	6667.7	4260.5	2916.9	2475.0	2360.1	2360.1	2413.1	2475.0	2477.9
27.5°	10394.9	8965.9	5763.2	3382.5	2442.6	2227.5	2189.2	2209.8	2283.5	2330.6	2333.5
30°	10132.7	8476.8	4908.7	2710.7	2147.9	2030.1	2021.2	2056.6	2109.6	2153.8	2156.8
32.5°	9935.2	8046.6	4110.2	2277.6	1944.6	1879.8	1876.9	1903.4	1932.8	1944.6	1956.4
35°	9858.6	7690.1	3379.5	2003.5	1809.1	1767.8	1767.8	1764.9	1776.7	1782.6	1788.5
37.5°	9920.5	7416.1	2813.8	1826.8	1708.9	1679.4	1661.8	1644.1	1638.2	1638.2	1641.1
40°	10182.7	7271.7	2392.5	1711.9	1638.2	1594.0	1561.6	1541.0	1520.3	1526.2	1532.1
42.5°	10739.6	7298.2	2106.7	1635.3	1576.3	1514.4	1467.3	1443.7	1429.0	1446.7	1443.7
45°	11626.5	7563.4	1924.0	1582.2	1514.4	1434.9	1390.7	1367.1	1367.1	1393.6	1402.5
47.5°	12866.9	8070.2	1826.8	1541.0	1467.3	1373.0	1328.8	1311.1	1317.0	1361.2	1364.2
50°	14381.4	8951.2	1809.1	1520.3	1443.7	1328.8	1278.7	1261.1	1275.8	1322.9	1328.8
52.5°	16052.0	10085.5	1894.5	1523.3	1423.1	1302.3	1237.5	1211.0	1225.7	1264.0	1275.8
55°	18031.9	11505.7	2115.5	1535.1	1393.6	1287.6	1208.0	1149.1	1166.8	1193.3	1196.2
57.5°	20053.2	13297.1	2504.4	1538.0	1370.1	1261.1	1157.9	1081.3	1081.3	1099.0	1107.8
60°	22522.3	15247.6	3017.1	1541.0	1373.0	1222.8	1090.2	1004.7	992.9	1001.8	1004.7
62.5°	24973.7	16879.9	3102.6	1532.1	1402.5	1184.5	1016.5	928.1	907.5	904.5	898.7
65°	26055.0	16576.4	2542.7	1490.9	1434.9	1160.9	957.6	854.5	819.1	807.3	807.3
67.5°	24293.0	14021.9	1912.2	1434.9	1414.3	1137.3	901.6	792.6	751.3	727.8	727.8
69°	22637.2	12472.1	1717.7	1396.6	1361.2	1099.0	866.2	760.2	710.1	683.6	674.7
70°	21358.4	11405.5	1635.3	1364.2	1311.1	1054.8	839.7	736.6	680.6	651.2	645.3
72.5°	17044.9	8948.2	1431.9	1240.4	1116.7	886.9	745.4	662.9	609.9	577.5	568.7
75°	9823.3	4849.8	1187.4	1078.4	898.7	689.5	630.5	577.5	536.2	506.8	497.9
77.5°	3023.0	1873.9	860.3	851.5	660.0	533.3	503.8	483.2	453.7	421.3	415.4
80°	1272.8	954.6	583.4	574.5	439.0	371.2	362.4	359.5	347.7	321.2	312.3
82.5°	698.3	539.2	406.6	353.6	265.2	215.1	223.9	226.9	218.0	191.5	173.8
85°	341.8	294.6	197.4	159.1	120.8	76.6	73.7	88.4	82.5	58.9	64.8
87.5°	67.8	82.5	53.0	23.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)