

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: P456289

Luminaire Tested: **GALN-SA7C-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456289
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-SA7C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 48535 lumens
Efficiency: N/A
Efficacy: 128.7 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

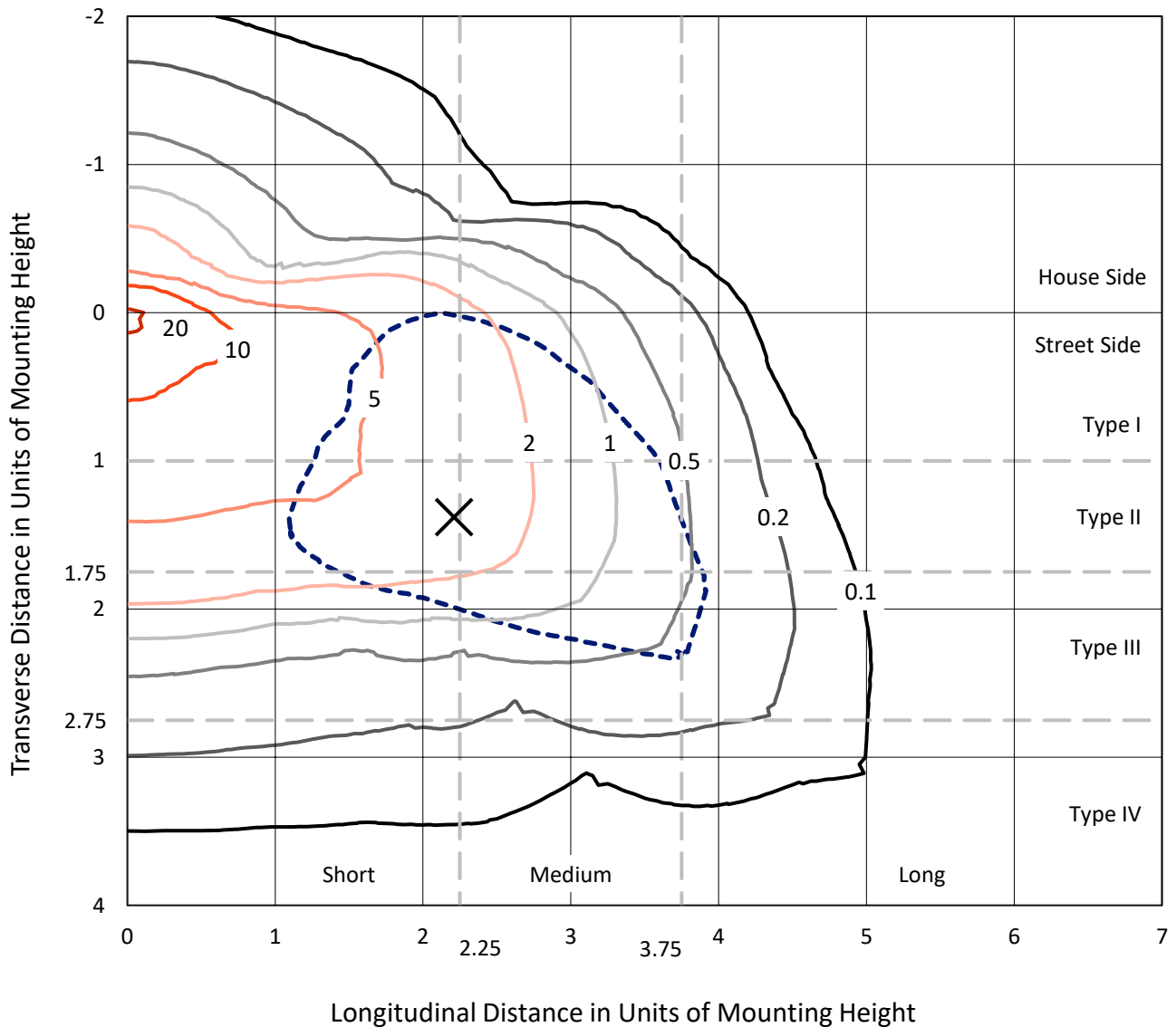
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

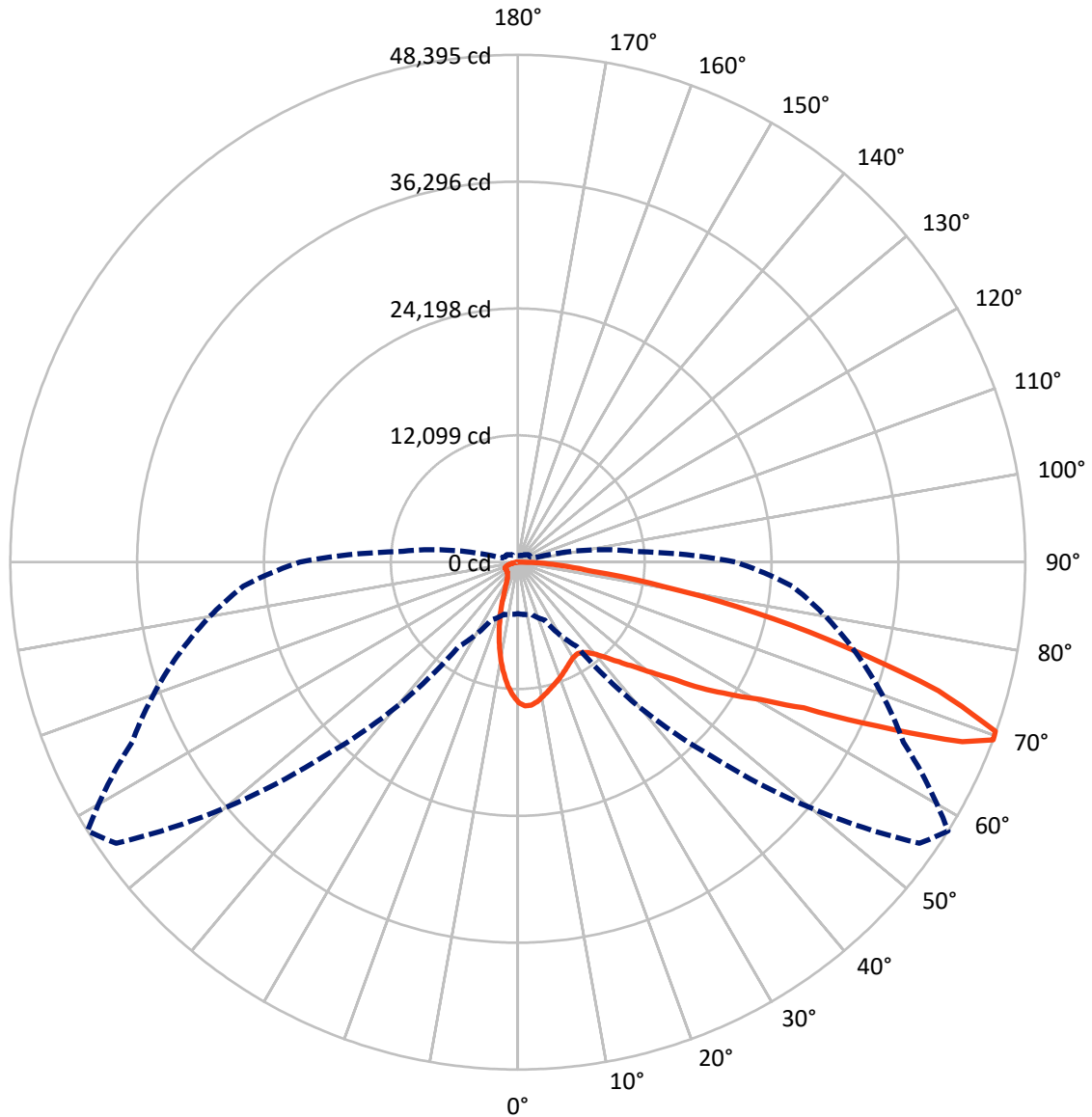
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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	7112.8	0.0	7112.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	41422.2	0.0	41422.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	48535.0	0.0	48535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1139.0	2.3
10°-20°	2501.1	5.2
20°-30°	3231.5	6.7
30°-40°	4197.0	8.6
40°-50°	6101.9	12.6
50°-60°	9736.6	20.1
60°-70°	13006.9	26.8
70°-80°	7497.9	15.4
80°-90°	1123.0	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°	48535.0	100.0
0°-180°	48535.0	100.0



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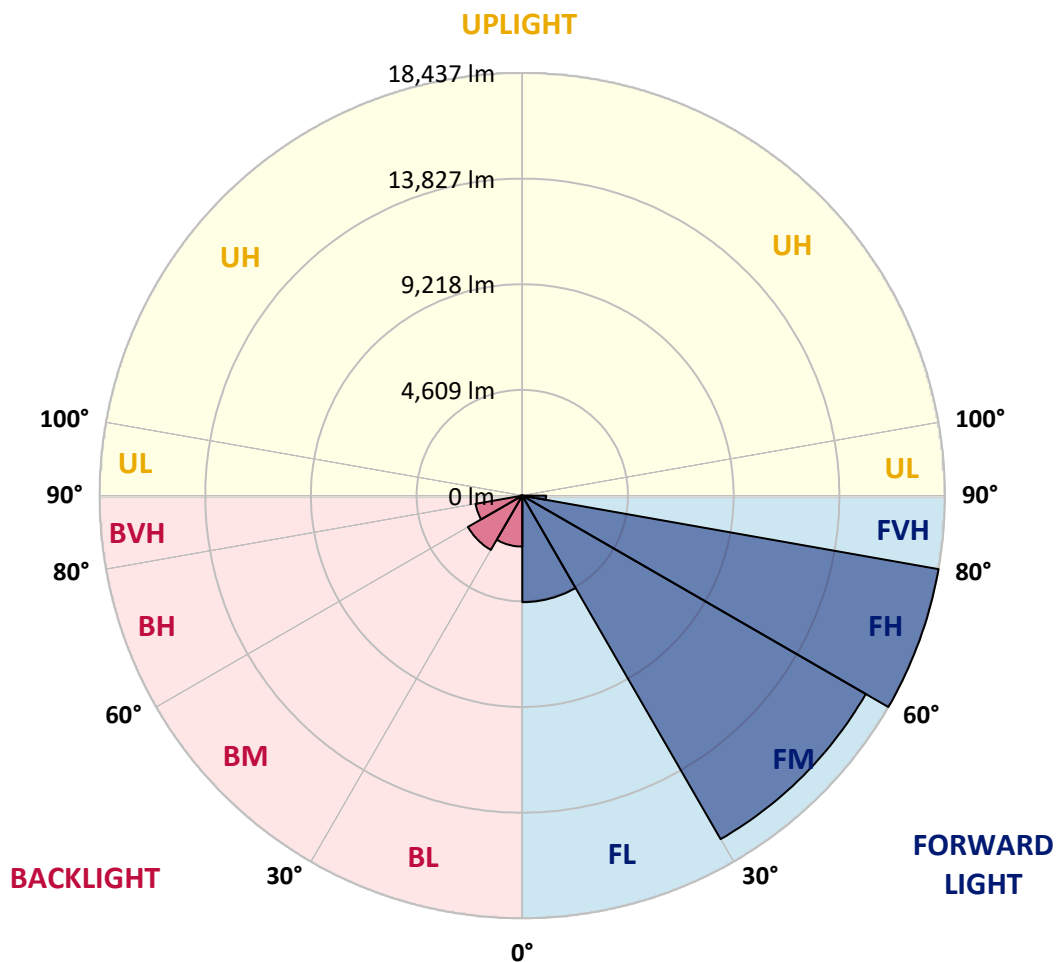
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4648.4	9.6			
FM	(30°-60°)	17300.2	35.6			
FH	(60°-80°)	18436.6	38.0			G5
FVH	(80°-90°)	1037.0	2.1			G5
BL	(0°-30°)	2223.2	4.6	B3/2500		
BM	(30°-60°)	2735.3	5.6	B3/5000		
BH	(60°-60°)	2068.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	86.0	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°	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2
2.5°	13910.3	13948.2	13937.4	13923.8	13902.2	13842.6	13745.2	13728.9	13666.7	13534.0	13368.9
5°	13696.4	13728.9	13731.6	13750.6	13777.7	13766.8	13696.4	13688.3	13596.3	13417.6	13141.6
7.5°	12962.9	13006.2	13100.9	13206.5	13301.3	13390.6	13412.2	13425.8	13368.9	13163.2	12795.1
10°	12137.3	12180.6	12223.9	12380.9	12613.7	12835.7	13019.7	13044.1	13057.6	12868.2	12418.8
12.5°	11222.4	11311.7	11403.8	11636.6	11947.8	12297.0	12621.8	12673.3	12765.3	12621.8	12094.0
15°	10445.6	10537.6	10670.2	10878.7	11254.9	11758.4	12215.8	12299.7	12481.1	12408.0	11790.9
17.5°	9906.9	9939.4	10031.4	10269.6	10675.6	11206.2	11817.9	11985.7	12275.4	12256.4	11531.0
20°	9481.9	9522.5	9579.4	9725.6	10147.8	10708.1	11447.1	11663.6	12056.1	12121.1	11273.9
22.5°	9303.3	9333.1	9325.0	9403.5	9690.4	10253.4	11070.8	11328.0	11861.2	12029.1	11035.7
25°	9314.1	9341.2	9300.6	9281.6	9452.2	9852.8	10678.4	11005.9	11704.2	11966.8	10819.1
27.5°	9495.5	9514.4	9438.6	9362.8	9376.4	9603.8	10353.5	10716.3	11571.6	11993.9	10637.8
30°	9739.1	9774.3	9725.6	9633.5	9533.4	9544.2	10145.1	10502.4	11509.3	12088.6	10551.1
32.5°	10053.1	10085.6	10063.9	9990.8	9860.9	9717.4	10093.7	10423.9	11514.8	12280.8	10532.2
35°	10383.3	10448.3	10483.5	10478.1	10372.5	10123.5	10296.7	10570.1	11644.7	12602.9	10643.2
37.5°	10756.9	10811.0	10962.6	11060.0	10962.6	10672.9	10754.1	10943.6	11931.6	13068.5	10886.8
40°	11119.6	11200.8	11422.7	11725.9	11688.0	11433.6	11452.5	11577.0	12437.8	13761.4	11363.2
42.5°	11498.5	11596.0	11983.0	12432.4	12521.7	12324.1	12375.5	12486.5	13157.8	14722.3	12180.6
45°	11985.7	12102.1	12578.5	13138.8	13490.7	13368.9	13515.1	13569.2	14121.4	15972.9	13257.9
47.5°	12613.7	12749.1	13336.4	14034.8	14532.9	14643.8	14898.3	14865.8	15315.1	17453.5	14654.7
50°	13672.1	13747.9	14302.8	15014.7	15699.5	16200.2	16476.3	16527.8	16795.7	18893.5	16216.5
52.5°	14930.8	14998.4	15399.0	16021.6	16879.7	17940.7	18622.8	18455.0	18520.0	20647.5	18043.6
55°	16346.4	16460.1	16714.5	17128.7	18241.2	19803.0	21172.7	21213.3	20493.2	22325.8	19794.9
57.5°	17442.7	17634.9	18070.6	18660.7	20071.0	21873.7	23714.3	23741.4	22821.1	24117.7	21727.5
60°	16890.5	17117.9	18114.0	19551.3	22471.9	25487.3	26751.4	26597.1	25086.7	26158.6	24085.2
62.5°	14508.5	14549.1	15997.2	18243.9	23210.9	30321.7	31271.8	30619.4	28110.2	28746.3	26480.7
65°	9389.9	9655.2	10802.9	13950.9	20782.9	33004.1	39191.9	37684.2	32349.1	31683.2	28486.4
67.5°	5927.9	5860.2	6336.6	7966.1	14294.7	30641.1	45950.8	45712.6	37892.6	33537.3	28007.3
69°	4915.6	4991.4	5153.8	6106.6	9836.5	26161.3	46749.3	48395.0	40580.5	33391.2	26266.9
70°	4458.1	4493.3	4663.8	5413.6	7589.9	21911.6	45439.2	48321.9	41636.1	32779.4	25005.5
72.5°	3537.8	3535.1	3827.4	4504.1	5673.5	12508.2	37310.6	41952.8	40455.9	29931.9	20661.1
75°	2687.9	2731.2	3053.3	3811.2	5226.8	6834.7	26036.8	32308.5	32311.2	23641.3	12892.5
77.5°	1938.1	1965.1	2341.4	3199.4	4923.7	5540.8	17342.5	23173.0	21784.4	10832.6	4052.1
80°	1269.5	1285.7	1572.7	2533.6	4439.2	5226.8	10283.2	14183.7	10275.0	2874.6	1339.9
82.5°	695.6	776.9	960.9	1640.3	3562.2	4828.9	6250.0	7178.5	3854.5	1280.3	698.4
85°	349.2	370.8	541.4	958.2	2327.9	3995.2	4352.5	4117.1	1989.5	636.1	362.7
87.5°	102.9	129.9	224.7	370.8	944.7	2081.5	2422.6	2173.6	766.0	230.1	75.8
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°	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2	13412.2
2.5°	13301.3	13252.5	13036.0	12841.1	12662.4	12473.0	12313.3	12172.5	12186.0	12188.8	12045.3
5°	12998.1	12887.1	12475.7	12091.3	11766.5	11355.1	11003.2	10775.8	10662.1	10510.5	10564.7
7.5°	12586.7	12372.8	11801.7	11162.9	10564.7	10031.4	9452.2	9054.3	8799.8	8553.5	8586.0
10°	12161.7	11817.9	10986.9	10142.4	9368.3	8515.6	7776.7	7143.3	6672.3	6496.3	6379.9
12.5°	11725.9	11273.9	10218.2	9094.9	8025.7	7005.2	5957.7	5278.3	4758.6	4482.5	4517.7
15°	11328.0	10778.5	9417.0	8047.3	6658.7	5443.4	4398.6	3751.6	3388.9	3313.1	3356.4
17.5°	10959.9	10239.9	8667.2	7029.6	5408.2	4081.9	3305.0	2939.6	2793.4	2752.8	2750.1
20°	10580.9	9782.4	7825.4	5941.4	4214.5	3164.3	2712.2	2541.7	2514.6	2530.9	2533.6
22.5°	10196.5	9216.7	6959.2	4861.4	3356.4	2587.7	2371.2	2325.1	2346.8	2384.7	2390.1
25°	9842.0	8718.6	6125.5	3914.0	2679.7	2273.7	2168.2	2168.2	2216.9	2273.7	2276.4
27.5°	9549.6	8236.8	5294.5	3107.4	2243.9	2046.3	2011.2	2030.1	2097.8	2141.1	2143.8
30°	9308.7	7787.5	4509.5	2490.3	1973.3	1865.0	1856.9	1889.4	1938.1	1978.7	1981.4
32.5°	9127.4	7392.3	3776.0	2092.4	1786.5	1726.9	1724.2	1748.6	1775.7	1786.5	1797.3
35°	9057.0	7064.8	3104.7	1840.6	1662.0	1624.1	1624.1	1621.4	1632.2	1637.6	1643.0
37.5°	9113.8	6813.0	2585.0	1678.2	1569.9	1542.9	1526.6	1510.4	1505.0	1505.0	1507.7
40°	9354.7	6680.4	2197.9	1572.7	1505.0	1464.4	1434.6	1415.7	1396.7	1402.1	1407.5
42.5°	9866.3	6704.8	1935.4	1502.3	1448.1	1391.3	1348.0	1326.3	1312.8	1329.0	1326.3
45°	10681.1	6948.4	1767.5	1453.6	1391.3	1318.2	1277.6	1256.0	1256.0	1280.3	1288.4
47.5°	11820.6	7413.9	1678.2	1415.7	1348.0	1261.4	1220.8	1204.5	1209.9	1250.5	1253.3
50°	13211.9	8223.3	1662.0	1396.7	1326.3	1220.8	1174.8	1158.5	1172.0	1215.4	1220.8
52.5°	14746.7	9265.4	1740.5	1399.4	1307.4	1196.4	1136.9	1112.5	1126.0	1161.2	1172.0
55°	16565.7	10570.1	1943.5	1410.2	1280.3	1182.9	1109.8	1055.7	1071.9	1096.3	1099.0
57.5°	18422.5	12215.8	2300.8	1413.0	1258.7	1158.5	1063.8	993.4	993.4	1009.6	1017.8
60°	20690.8	14007.7	2771.8	1415.7	1261.4	1123.3	1001.5	923.0	912.2	920.3	923.0
62.5°	22942.9	15507.3	2850.3	1407.5	1288.4	1088.1	933.8	852.6	833.7	831.0	825.6
65°	23936.3	15228.5	2336.0	1369.6	1318.2	1066.5	879.7	785.0	752.5	741.7	741.7
67.5°	22317.6	12881.7	1756.7	1318.2	1299.3	1044.8	828.3	728.1	690.2	668.6	668.6
69°	20796.4	11457.9	1578.1	1283.0	1250.5	1009.6	795.8	698.4	652.3	628.0	619.9
70°	19621.6	10478.1	1502.3	1253.3	1204.5	969.0	771.4	676.7	625.3	598.2	592.8
72.5°	15658.9	8220.6	1315.5	1139.6	1025.9	814.7	684.8	609.0	560.3	530.5	522.4
75°	9024.5	4455.4	1090.8	990.7	825.6	633.4	579.3	530.5	492.6	465.6	457.5
77.5°	2777.2	1721.5	790.4	782.3	606.3	489.9	462.9	443.9	416.8	387.1	381.7
80°	1169.3	877.0	535.9	527.8	403.3	341.1	332.9	330.2	319.4	295.0	286.9
82.5°	641.5	495.3	373.5	324.8	243.6	197.6	205.7	208.4	200.3	175.9	159.7
85°	314.0	270.7	181.4	146.2	111.0	70.4	67.7	81.2	75.8	54.1	59.5
87.5°	62.3	75.8	48.7	21.7	10.8	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)