

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: P459452

Luminaire Tested: **GALN-SA9A-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459452
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37803 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

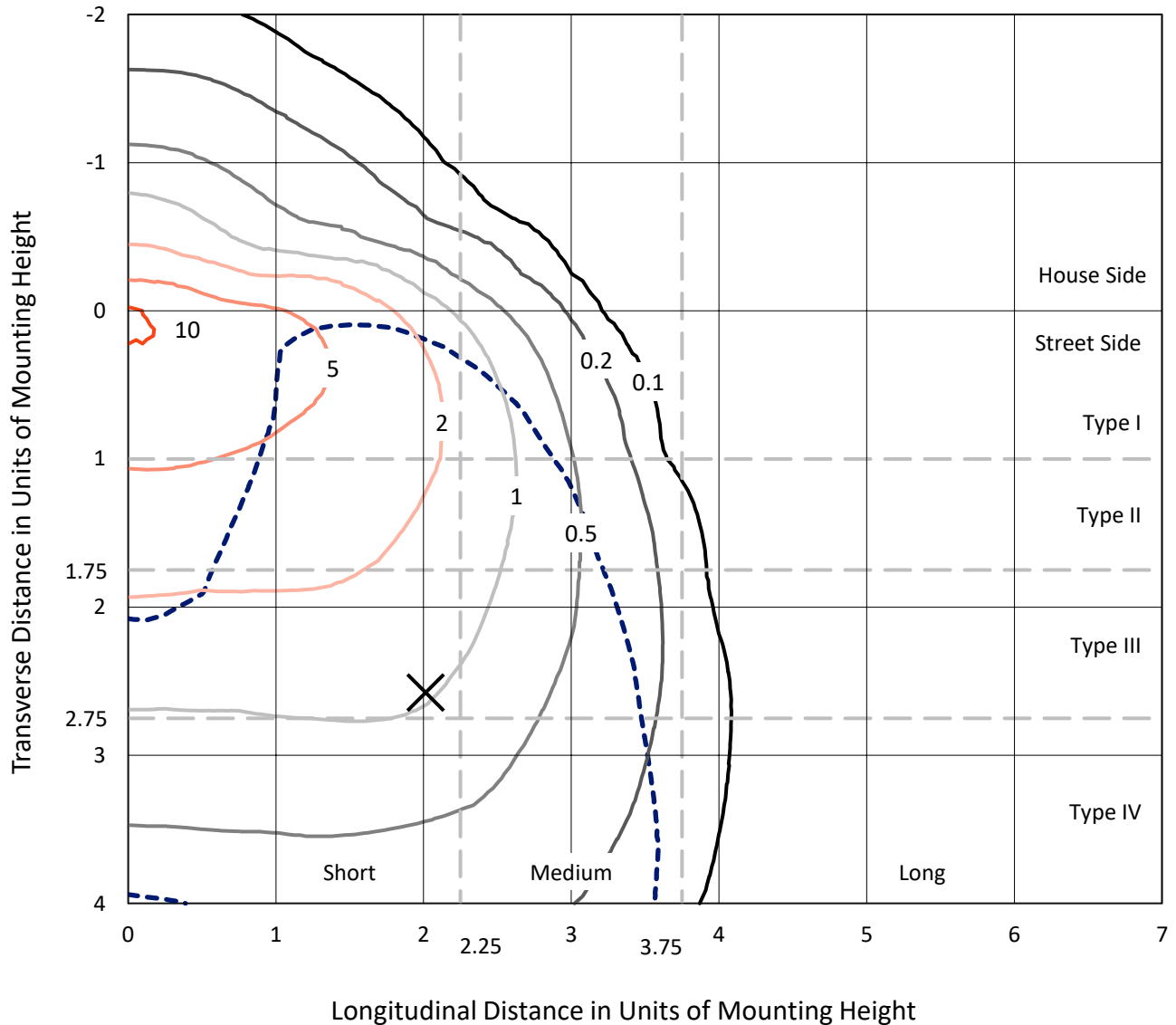
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

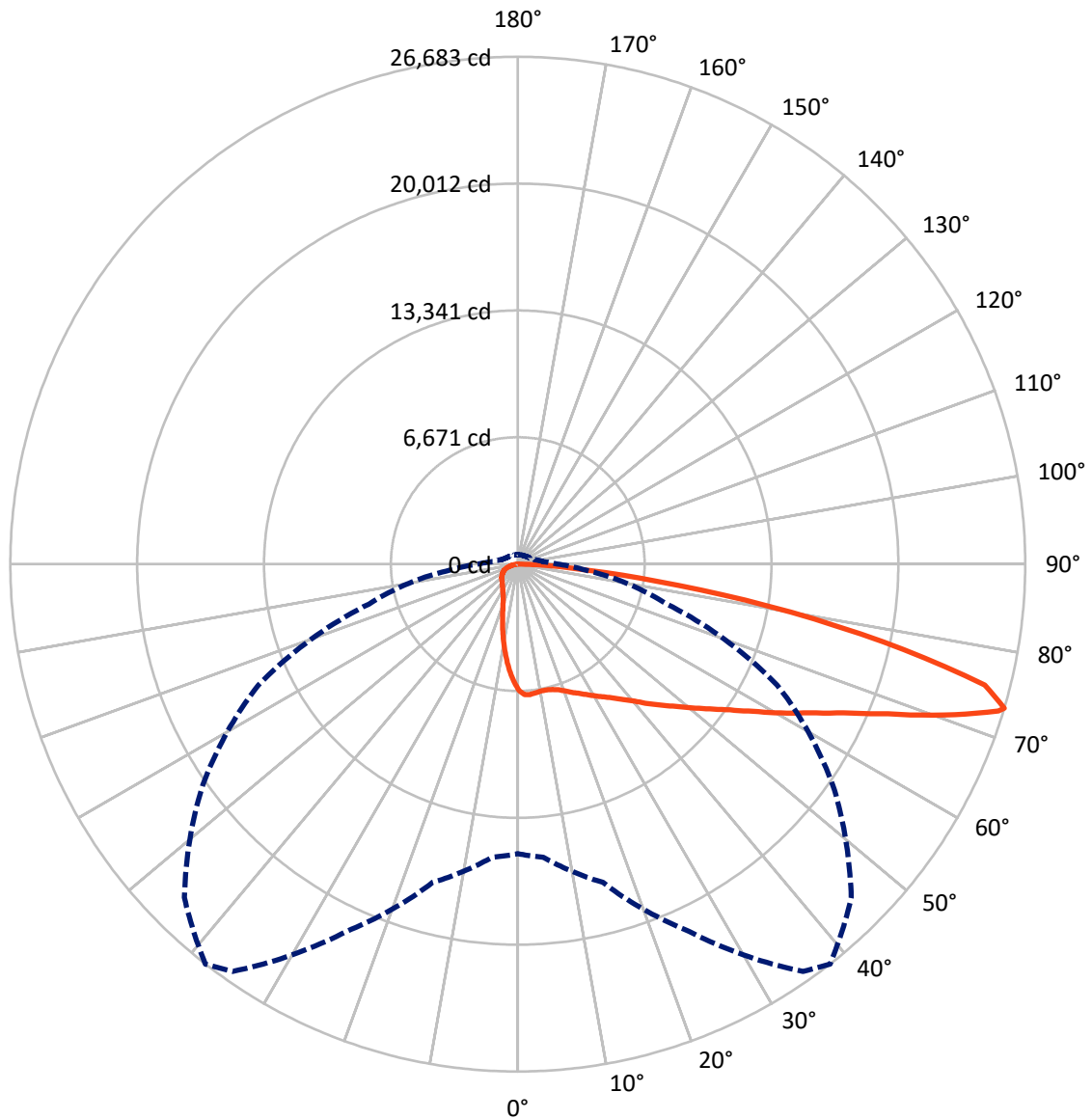
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5081.8	0.0	5081.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32721.1	0.0	32721.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	37803.0	0.0	37803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.7	1.5
10°-20°	1486.6	3.9
20°-30°	2314.9	6.1
30°-40°	3395.4	9.0
40°-50°	5036.7	13.3
50°-60°	7136.0	18.9
60°-70°	9052.3	23.9
70°-80°	7535.3	19.9
80°-90°	1266.0	3.3
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°	37803.0	100.0
0°-180°	37803.0	100.0

Coefficient of Utilization



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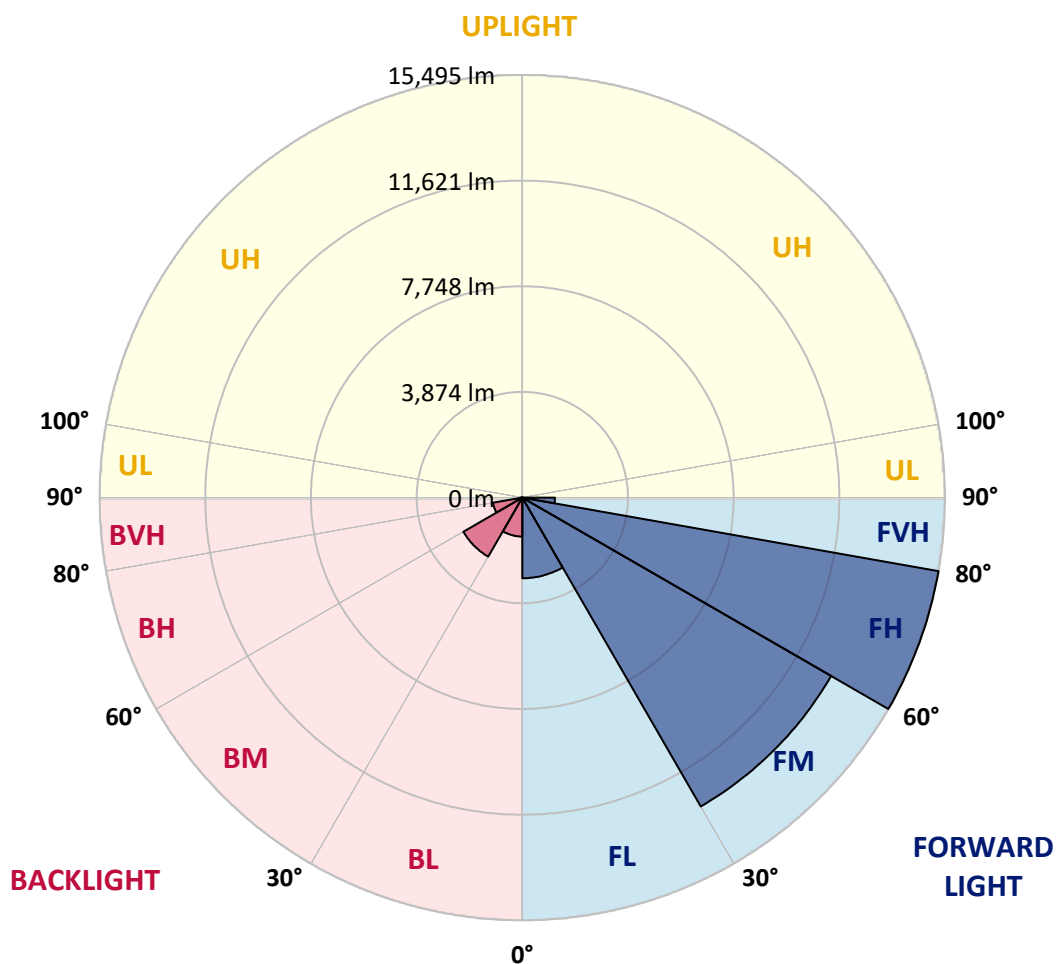
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2955.2	7.8			
FM	(30°-60°)	13073.3	34.6			
FH	(60°-80°)	15495.3	41.0			G5
FVH	(80°-90°)	1197.4	3.2			G5
BL	(0°-30°)	1426.0	3.8	B3/2500		
BM	(30°-60°)	2494.9	6.6	B2/2500		
BH	(60°-80°)	1092.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	68.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3
2.5°	6908.2	6942.4	6925.3	6901.8	6886.8	6871.9	6850.6	6788.6	6739.5	6686.2	6602.9
5°	6959.4	6980.8	6965.8	6935.9	6901.8	6886.8	6846.3	6765.2	6686.2	6596.5	6472.7
7.5°	6929.5	6938.1	6921.0	6884.7	6854.8	6827.1	6780.1	6690.4	6594.4	6485.5	6323.3
10°	6822.8	6854.8	6854.8	6824.9	6795.1	6780.1	6733.1	6647.8	6560.2	6436.4	6244.3
12.5°	6735.3	6769.4	6797.2	6788.6	6786.5	6786.5	6750.2	6686.2	6583.7	6466.3	6237.9
15°	6675.5	6716.1	6775.8	6810.0	6831.3	6837.7	6822.8	6767.3	6662.7	6526.1	6263.5
17.5°	6662.7	6711.8	6820.7	6895.4	6950.9	6948.8	6944.5	6867.6	6752.4	6611.5	6295.5
20°	6720.3	6784.4	6935.9	7053.4	7134.5	7119.5	7096.1	6995.7	6861.2	6703.3	6325.4
22.5°	6893.3	6959.4	7125.9	7254.0	7333.0	7333.0	7262.6	7130.2	6987.2	6810.0	6366.0
25°	7140.9	7213.5	7390.7	7520.9	7557.2	7529.4	7459.0	7298.9	7134.5	6963.7	6451.3
27.5°	7444.0	7531.6	7695.9	7804.8	7794.1	7772.8	7700.2	7495.3	7330.9	7175.0	6596.5
30°	7821.9	7885.9	8056.7	8082.3	8043.9	8039.6	7937.2	7732.2	7578.5	7459.0	6803.6
32.5°	8178.4	8236.0	8372.7	8383.3	8315.0	8323.6	8227.5	8039.6	7952.1	7909.4	7151.6
35°	8556.3	8586.1	8703.6	8690.7	8645.9	8639.5	8601.1	8421.8	8449.5	8526.4	7644.7
37.5°	8872.2	8932.0	8998.2	9008.8	9006.7	9028.0	9053.7	8968.3	9128.4	9369.6	8291.5
40°	9162.5	9213.8	9312.0	9346.1	9429.4	9472.1	9559.6	9561.7	9931.1	10328.1	9087.8
42.5°	9358.9	9446.5	9630.1	9692.0	9894.8	10022.9	10153.1	10291.8	10827.7	11337.9	10027.1
45°	9529.7	9645.0	9950.3	10142.4	10417.8	10573.6	10849.0	11139.4	11910.0	12578.2	10981.4
47.5°	9788.0	9890.5	10240.6	10580.0	10996.3	11175.7	11587.7	12021.0	13028.7	13760.9	11895.1
50°	10146.7	10208.6	10565.1	11118.0	11649.6	11880.1	12424.5	13050.0	14224.1	14928.6	12697.8
52.5°	10605.7	10631.3	10915.2	11651.7	12351.9	12638.0	13359.5	14089.6	15270.2	15942.6	13333.9
55°	11147.9	11105.2	11327.2	12217.4	13154.6	13528.2	14303.1	15142.1	16446.5	16762.4	13797.2
57.5°	11683.7	11617.6	11794.7	12904.8	14145.1	14595.6	15498.6	16226.6	17496.8	17528.8	14121.7
60°	12251.6	12202.5	12413.8	13711.8	15359.8	15893.5	16728.3	17351.6	18512.9	18062.5	14172.9
62.5°	12834.4	12755.4	13056.4	14619.1	16728.3	17212.8	18021.9	18547.1	19509.9	18261.0	13679.8
65°	13400.1	13363.8	13829.2	15697.1	18286.7	18837.4	19623.0	19979.5	20308.3	17962.2	12456.5
67.5°	14002.1	14074.7	14817.6	17136.0	20319.0	21010.6	21858.2	21523.0	20536.7	16546.8	10490.4
70°	14920.1	14967.0	16115.6	19021.0	22938.4	23773.1	24183.0	22071.6	19435.2	13859.1	7885.9
72.5°	15315.0	15522.1	17274.8	21000.0	25914.3	26424.5	24964.3	20848.4	16190.3	9414.4	4143.6
73°	15227.5	15475.1	17328.1	21301.0	26147.0	26682.8	24797.8	20218.6	15050.3	8108.0	3552.3
75°	14136.6	14441.9	16634.3	21049.1	25694.4	25374.2	22120.7	17232.1	10170.2	3686.8	1618.2
77.5°	11154.3	11241.8	13180.2	16997.2	20233.6	19640.1	16555.3	10770.0	4154.3	1370.5	918.0
80°	5595.3	5917.7	7429.1	9736.8	13530.3	13336.1	10449.8	5093.6	1731.3	804.8	608.4
82.5°	2692.0	2920.4	3618.5	4747.8	7476.1	7298.9	5174.7	2783.8	1099.4	469.7	358.6
85°	1733.5	1904.2	2303.4	2265.0	3074.1	2935.3	2324.8	2107.0	651.1	245.5	249.8
87.5°	1144.2	1253.1	1502.9	1201.9	1118.6	1011.9	1026.8	1186.9	128.1	93.9	34.2
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°	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3	6641.3
2.5°	6568.8	6541.0	6449.2	6359.6	6274.2	6193.0	6139.7	6069.2	6022.3	6035.1	6054.3
5°	6404.4	6342.5	6180.2	6022.3	5872.8	5695.6	5552.6	5437.3	5349.8	5317.8	5311.4
7.5°	6231.5	6126.9	5894.2	5623.0	5369.0	5149.1	4895.1	4769.1	4621.8	4570.6	4553.5
10°	6126.9	5986.0	5659.3	5281.5	4899.4	4534.3	4258.9	4034.8	3832.0	3793.5	3774.3
12.5°	6097.0	5911.2	5471.5	4984.7	4476.7	4028.4	3620.6	3326.0	3129.6	3084.8	3018.6
15°	6079.9	5849.3	5296.4	4685.9	4041.2	3494.7	3065.6	2721.9	2542.5	2423.0	2425.1
17.5°	6065.0	5778.9	5100.0	4359.3	3665.4	3035.7	2561.8	2252.2	2087.8	2023.8	2017.4
20°	6043.6	5695.6	4873.7	4015.5	3236.3	2617.3	2188.2	1957.6	1846.6	1793.2	1791.1
22.5°	6035.1	5614.5	4651.7	3665.4	2856.4	2294.9	1940.5	1778.3	1707.8	1671.5	1671.5
25°	6056.4	5556.9	4419.0	3332.4	2519.1	2019.5	1769.7	1658.7	1618.2	1599.0	1592.6
27.5°	6122.6	5531.3	4188.5	2999.4	2209.5	1831.7	1654.5	1577.6	1547.7	1532.8	1534.9
30°	6248.5	5529.1	3962.2	2670.6	1979.0	1688.6	1562.7	1509.3	1485.8	1477.3	1475.1
32.5°	6451.3	5576.1	3740.2	2399.5	1784.7	1569.1	1477.3	1438.9	1428.2	1421.8	1419.6
35°	6795.1	5708.4	3520.3	2151.9	1635.3	1462.3	1396.2	1376.9	1362.0	1368.4	1370.5
37.5°	7258.3	5936.9	3311.1	1957.6	1522.1	1383.3	1327.8	1310.8	1302.2	1308.6	1315.0
40°	7879.5	6265.6	3136.0	1801.8	1441.0	1317.2	1268.1	1253.1	1244.6	1255.3	1257.4
42.5°	8564.8	6645.6	2990.8	1680.1	1374.8	1261.7	1214.7	1197.6	1191.2	1197.6	1199.8
45°	9269.3	7087.5	2916.1	1592.6	1319.3	1221.1	1172.0	1152.8	1137.8	1133.6	1140.0
47.5°	9963.1	7471.8	2914.0	1539.2	1274.5	1184.8	1131.4	1110.1	1090.9	1080.2	1078.1
50°	10528.8	7777.1	2965.2	1515.7	1236.0	1144.2	1090.9	1069.5	1043.9	1022.6	1026.8
52.5°	10955.8	7975.6	2988.7	1505.0	1214.7	1101.6	1048.2	1029.0	999.1	971.3	971.3
55°	11231.2	8022.6	2931.1	1494.4	1197.6	1056.7	999.1	982.0	952.1	924.4	924.4
57.5°	11325.1	7877.4	2724.0	1468.7	1180.5	1018.3	950.0	935.0	911.6	883.8	879.5
60°	11107.3	7386.4	2361.1	1391.9	1146.4	977.7	896.6	890.2	881.7	858.2	856.1
62.5°	10268.4	6344.6	1966.1	1291.6	1088.7	935.0	847.5	858.2	864.6	851.8	849.6
65°	8872.2	5151.3	1680.1	1152.8	1011.9	875.3	794.1	821.9	839.0	839.0	834.7
67.5°	7196.4	3955.8	1415.4	1033.2	915.8	794.1	734.4	755.7	768.5	764.3	774.9
70°	5115.0	2679.2	1152.8	896.6	794.1	702.3	657.5	657.5	649.0	644.7	644.7
72.5°	2480.6	1530.6	935.0	749.3	676.7	599.9	563.6	548.6	531.6	529.4	518.8
73°	2072.9	1372.7	892.3	721.6	649.0	584.9	544.4	520.9	510.2	501.7	499.5
75°	1261.7	1041.8	745.0	608.4	552.9	503.8	467.5	446.2	435.5	429.1	427.0
77.5°	830.4	777.1	578.5	465.4	422.7	392.8	377.9	356.5	350.1	341.6	341.6
80°	619.1	593.5	414.2	328.8	303.1	277.5	273.3	269.0	251.9	241.2	237.0
82.5°	399.2	422.7	281.8	219.9	192.1	170.8	172.9	179.3	162.2	147.3	143.0
85°	283.9	305.3	170.8	100.3	81.1	70.4	79.0	70.4	72.6	57.6	47.0
87.5°	47.0	81.1	29.9	12.8	6.4	4.3	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)