

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: P456521

Luminaire Tested: **GALN-SA7D-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456521
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-SA7D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA 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: 53406 lumens
Efficiency: N/A
Efficacy: 123.3 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

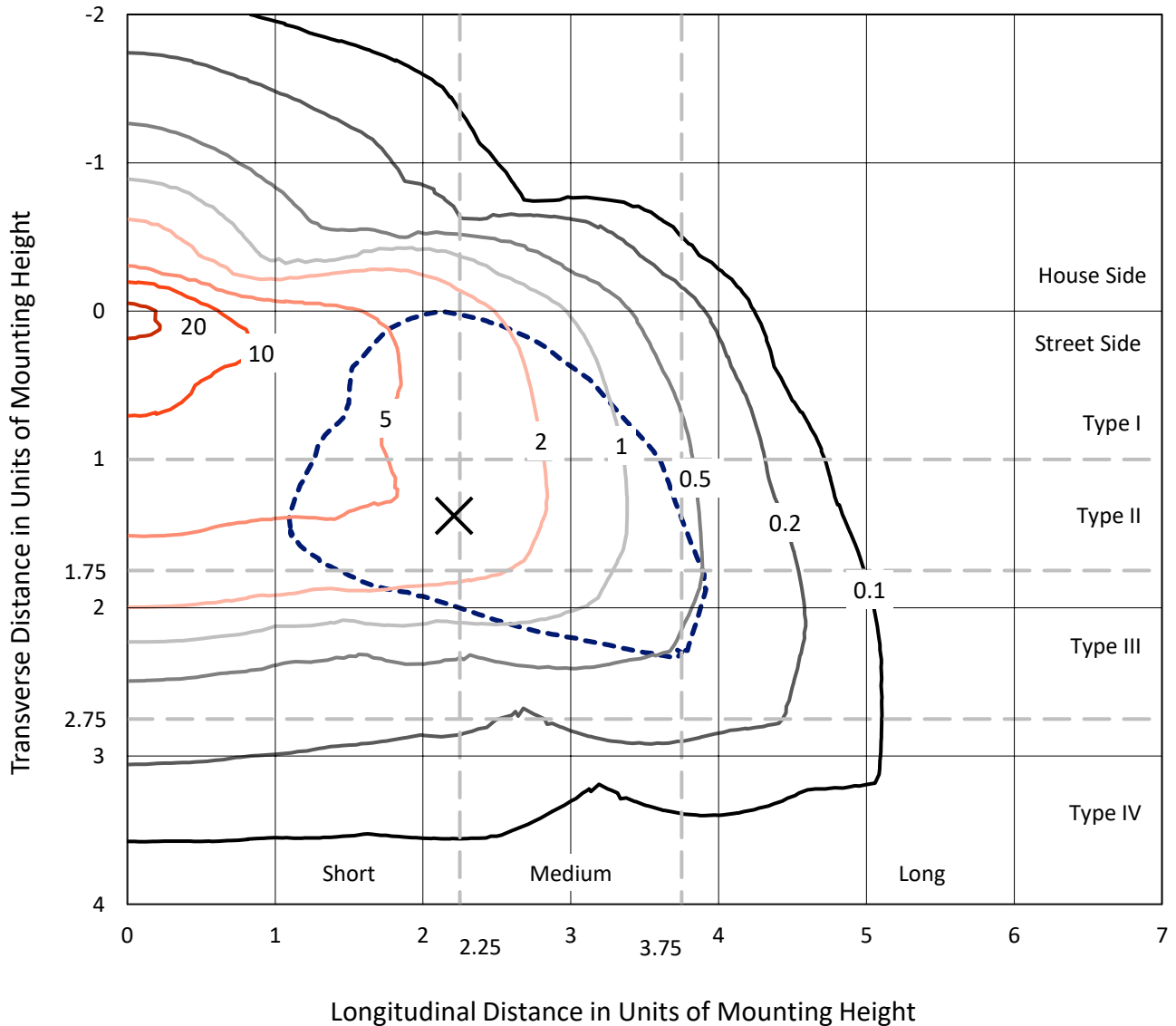
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

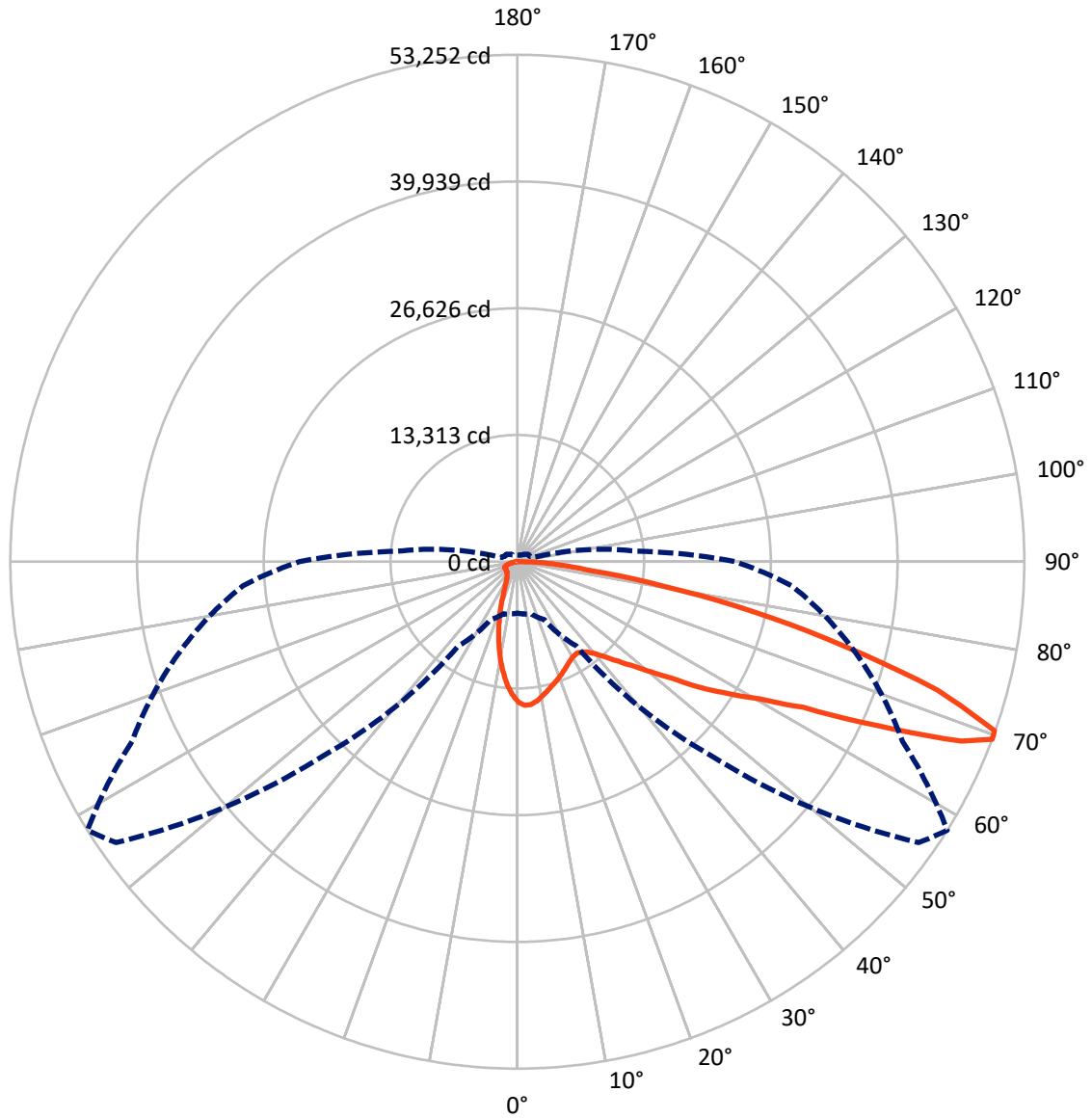
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 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	7826.6	0.0	7826.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	45579.3	0.0	45579.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	53406.0	0.0	53406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.3	2.3
10°-20°	2752.1	5.2
20°-30°	3555.8	6.7
30°-40°	4618.3	8.6
40°-50°	6714.3	12.6
50°-60°	10713.8	20.1
60°-70°	14312.3	26.8
70°-80°	8250.4	15.4
80°-90°	1235.7	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°	53406.0	100.0
0°-180°	53406.0	100.0

Coefficient of Utilization



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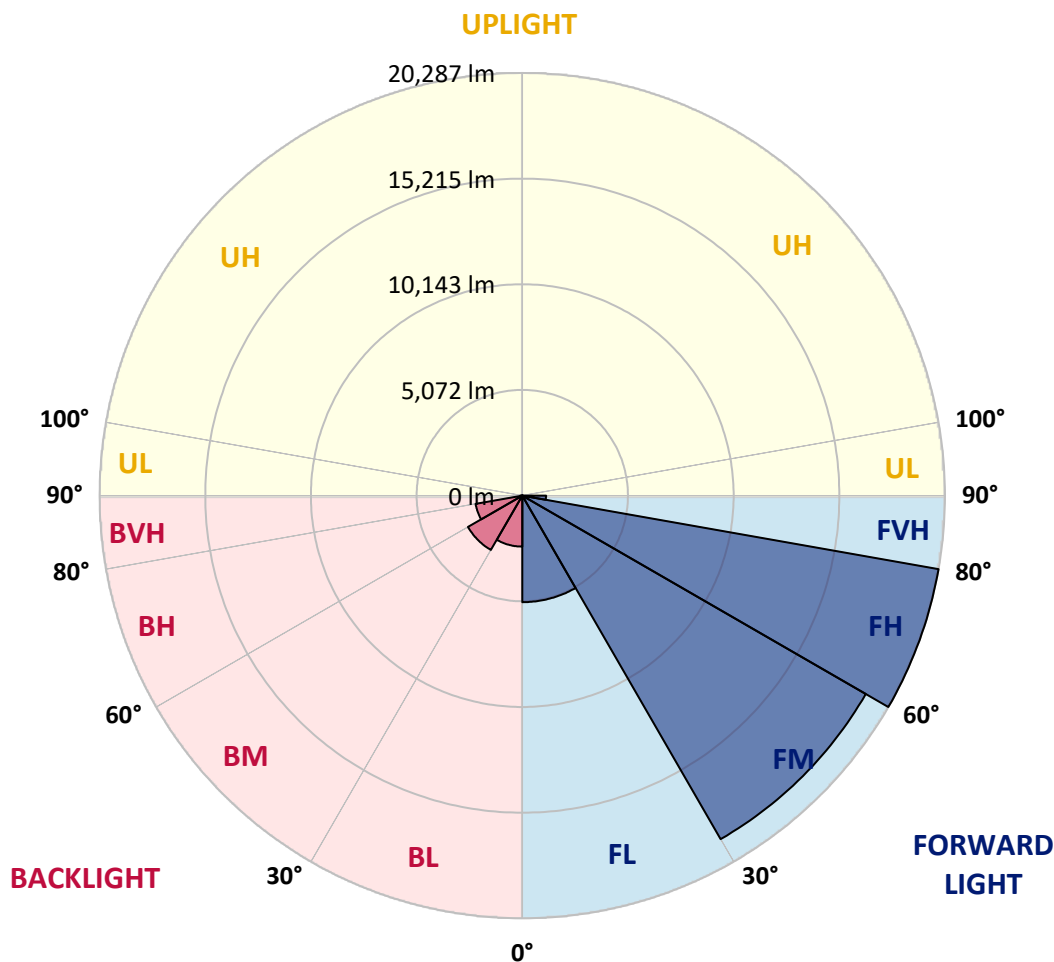
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5114.9	9.6			
FM	(30°-60°)	19036.5	35.6			
FH	(60°-80°)	20286.9	38.0			G5
FVH	(80°-90°)	1141.1	2.1			G5
BL	(0°-30°)	2446.3	4.6	B3/2500		
BM	(30°-60°)	3009.9	5.6	B3/5000		
BH	(60°-80°)	2275.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	94.7	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°	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3
2.5°	15306.3	15348.0	15336.1	15321.2	15297.4	15231.9	15124.6	15106.8	15038.3	14892.3	14710.6
5°	15071.0	15106.8	15109.8	15130.6	15160.4	15148.5	15071.0	15062.1	14960.8	14764.2	14460.4
7.5°	14263.9	14311.5	14415.8	14531.9	14636.2	14734.5	14758.3	14773.2	14710.6	14484.3	14079.2
10°	13355.4	13403.1	13450.7	13623.5	13879.6	14123.9	14326.4	14353.2	14368.1	14159.6	13665.2
12.5°	12348.7	12447.0	12548.3	12804.4	13146.9	13531.2	13888.6	13945.2	14046.4	13888.6	13307.8
15°	11493.9	11595.2	11741.1	11970.4	12384.5	12938.4	13441.8	13534.1	13733.7	13653.3	12974.2
17.5°	10901.2	10936.9	11038.2	11300.3	11747.1	12330.8	13004.0	13188.6	13507.3	13486.5	12688.3
20°	10433.6	10478.2	10540.8	10701.6	11166.3	11782.8	12595.9	12834.2	13266.1	13337.6	12405.3
22.5°	10237.0	10269.7	10260.8	10347.2	10662.9	11282.4	12181.9	12464.9	13051.6	13236.3	12143.2
25°	10248.9	10278.7	10234.0	10213.2	10400.8	10841.6	11750.0	12110.4	12878.9	13167.8	11904.9
27.5°	10448.5	10469.3	10385.9	10302.5	10317.4	10567.6	11392.6	11791.7	12732.9	13197.6	11705.4
30°	10716.5	10755.2	10701.6	10600.4	10490.2	10502.1	11163.3	11556.4	12664.4	13301.8	11610.1
32.5°	11062.0	11097.8	11073.9	10993.5	10850.5	10692.7	11106.7	11470.1	12670.4	13513.3	11589.2
35°	11425.4	11496.9	11535.6	11529.6	11413.5	11139.5	11330.1	11630.9	12813.4	13867.7	11711.3
37.5°	11836.4	11896.0	12062.8	12170.0	12062.8	11744.1	11833.4	12041.9	13129.1	14380.0	11979.4
40°	12235.5	12324.9	12569.1	12902.7	12861.0	12581.0	12601.9	12738.9	13686.0	15142.5	12503.6
42.5°	12652.5	12759.7	13185.7	13680.1	13778.4	13560.9	13617.5	13739.7	14478.3	16199.9	13403.1
45°	13188.6	13316.7	13840.9	14457.5	14844.7	14710.6	14871.5	14931.0	15538.6	17575.9	14588.5
47.5°	13879.6	14028.6	14674.9	15443.3	15991.4	16113.5	16393.5	16357.7	16852.2	19205.1	16125.4
50°	15044.2	15127.6	15738.2	16521.5	17275.1	17826.1	18129.9	18186.5	18481.4	20789.7	17844.0
52.5°	16429.2	16503.7	16944.5	17629.5	18573.7	19741.3	20491.8	20307.2	20378.7	22719.7	19854.4
55°	17986.9	18112.0	18392.0	18847.7	20071.9	21790.4	23297.5	23342.2	22550.0	24566.4	21781.5
57.5°	19193.2	19404.7	19884.2	20533.5	22085.3	24069.0	26094.3	26124.1	25111.4	26538.1	23908.1
60°	18585.6	18835.8	19931.9	21513.4	24727.2	28045.2	29436.2	29266.4	27604.4	28783.9	26502.4
62.5°	15964.6	16009.2	17602.7	20074.9	25540.3	33364.8	34410.2	33692.4	30931.4	31631.3	29138.3
65°	10332.3	10624.2	11887.1	15351.0	22868.7	36316.4	43125.2	41466.2	35595.6	34862.9	31345.4
67.5°	6522.8	6448.4	6972.6	8765.6	15729.3	33716.2	50562.4	50300.3	41695.5	36903.2	30818.2
69°	5408.9	5492.3	5671.0	6719.4	10823.7	28786.9	51441.1	53252.0	44653.1	36742.3	28903.0
70°	4905.5	4944.3	5131.9	5956.9	8351.6	24110.7	49999.5	53171.5	45814.7	36069.2	27515.1
72.5°	3892.9	3889.9	4211.5	4956.2	6242.9	13763.5	41055.2	46163.2	44516.1	32935.9	22734.6
75°	2957.6	3005.3	3359.7	4193.7	5751.4	7520.6	28649.9	35551.0	35553.9	26013.9	14186.4
77.5°	2132.6	2162.4	2576.4	3520.5	5417.8	6096.9	19083.0	25498.6	23970.7	11919.8	4458.8
80°	1396.9	1414.8	1730.5	2787.8	4884.7	5751.4	11315.2	15607.2	11306.3	3163.1	1474.3
82.5°	765.5	854.8	1057.4	1804.9	3919.7	5313.6	6877.3	7898.9	4241.3	1408.8	768.4
85°	384.2	408.0	595.7	1054.4	2561.5	4396.2	4789.4	4530.2	2189.2	699.9	399.1
87.5°	113.2	143.0	247.2	408.0	1039.5	2290.4	2665.7	2391.7	842.9	253.2	83.4
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°	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3	14758.3
2.5°	14636.2	14582.6	14344.3	14129.8	13933.3	13724.8	13549.0	13394.2	13409.0	13412.0	13254.2
5°	14302.6	14180.5	13727.7	13304.8	12947.4	12494.7	12107.5	11857.3	11732.2	11565.4	11624.9
7.5°	13849.9	13614.6	12986.1	12283.2	11624.9	11038.2	10400.8	9963.0	9683.0	9411.9	9447.7
10°	13382.2	13004.0	12089.6	11160.3	10308.5	9370.2	8557.1	7860.2	7341.9	7148.3	7020.2
12.5°	12902.7	12405.3	11243.7	10007.6	8831.1	7708.3	6555.6	5808.0	5236.1	4932.3	4971.1
15°	12464.9	11860.2	10362.1	8855.0	7327.0	5989.7	4840.0	4128.2	3729.0	3645.6	3693.3
17.5°	12059.8	11267.5	9537.0	7735.1	5951.0	4491.5	3636.7	3234.6	3073.8	3029.1	3026.1
20°	11642.8	10764.2	8610.7	6537.7	4637.5	3481.8	2984.4	2796.8	2767.0	2784.9	2787.8
22.5°	11219.9	10141.7	7657.6	5349.3	3693.3	2847.4	2609.1	2558.5	2582.3	2624.0	2630.0
25°	10829.7	9593.6	6740.3	4306.9	2948.7	2501.9	2385.8	2385.8	2439.4	2501.9	2504.9
27.5°	10508.0	9063.5	5825.9	3419.3	2469.1	2251.7	2213.0	2233.8	2308.3	2356.0	2358.9
30°	10242.9	8569.0	4962.1	2740.2	2171.3	2052.2	2043.2	2079.0	2132.6	2177.3	2180.2
32.5°	10043.4	8134.2	4155.0	2302.4	1965.8	1900.3	1897.3	1924.1	1953.9	1965.8	1977.7
35°	9965.9	7773.8	3416.3	2025.4	1828.8	1787.1	1787.1	1784.1	1796.0	1802.0	1807.9
37.5°	10028.5	7496.8	2844.4	1846.6	1727.5	1697.7	1679.9	1662.0	1656.0	1656.0	1659.0
40°	10293.6	7350.9	2418.5	1730.5	1656.0	1611.3	1578.6	1557.7	1536.9	1542.8	1548.8
42.5°	10856.5	7377.7	2129.6	1653.0	1593.5	1530.9	1483.3	1459.4	1444.6	1462.4	1459.4
45°	11753.0	7645.7	1944.9	1599.4	1530.9	1450.5	1405.8	1382.0	1382.0	1408.8	1417.7
47.5°	13007.0	8158.0	1846.6	1557.7	1483.3	1388.0	1343.3	1325.4	1331.4	1376.1	1379.0
50°	14537.9	9048.6	1828.8	1536.9	1459.4	1343.3	1292.7	1274.8	1289.7	1337.3	1343.3
52.5°	16226.7	10195.3	1915.2	1539.9	1438.6	1316.5	1251.0	1224.1	1239.0	1277.8	1289.7
55°	18228.2	11630.9	2138.5	1551.8	1408.8	1301.6	1221.2	1161.6	1179.5	1206.3	1209.3
57.5°	20271.4	13441.8	2531.7	1554.8	1385.0	1274.8	1170.5	1093.1	1093.1	1111.0	1119.9
60°	22767.4	15413.6	3049.9	1557.7	1388.0	1236.1	1102.0	1015.7	1003.7	1012.7	1015.7
62.5°	25245.5	17063.6	3136.3	1548.8	1417.7	1197.3	1027.6	938.2	917.4	914.4	908.4
65°	26338.6	16756.8	2570.4	1507.1	1450.5	1173.5	968.0	863.8	828.0	816.1	816.1
67.5°	24557.4	14174.5	1933.0	1450.5	1429.7	1149.7	911.4	801.2	759.5	735.7	735.7
69°	22883.5	12607.8	1736.4	1411.8	1376.1	1111.0	875.7	768.4	717.8	691.0	682.1
70°	21590.9	11529.6	1653.0	1379.0	1325.4	1066.3	848.9	744.6	688.0	658.2	652.3
72.5°	17230.4	9045.6	1447.5	1253.9	1128.8	896.5	753.6	670.2	616.5	583.8	574.8
75°	9930.2	4902.6	1200.3	1090.1	908.4	697.0	637.4	583.8	542.1	512.3	503.4
77.5°	3055.9	1894.3	869.7	860.8	667.2	539.1	509.3	488.5	458.7	425.9	420.0
80°	1286.7	965.0	589.7	580.8	443.8	375.3	366.4	363.4	351.5	324.7	315.7
82.5°	705.9	545.1	411.0	357.4	268.1	217.4	226.4	229.3	220.4	193.6	175.7
85°	345.5	297.8	199.6	160.8	122.1	77.4	74.5	89.4	83.4	59.6	65.5
87.5°	68.5	83.4	53.6	23.8	11.9	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)