

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: P651621

Luminaire Tested: **GALN-SA9D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651621
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-SA9D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 58458.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

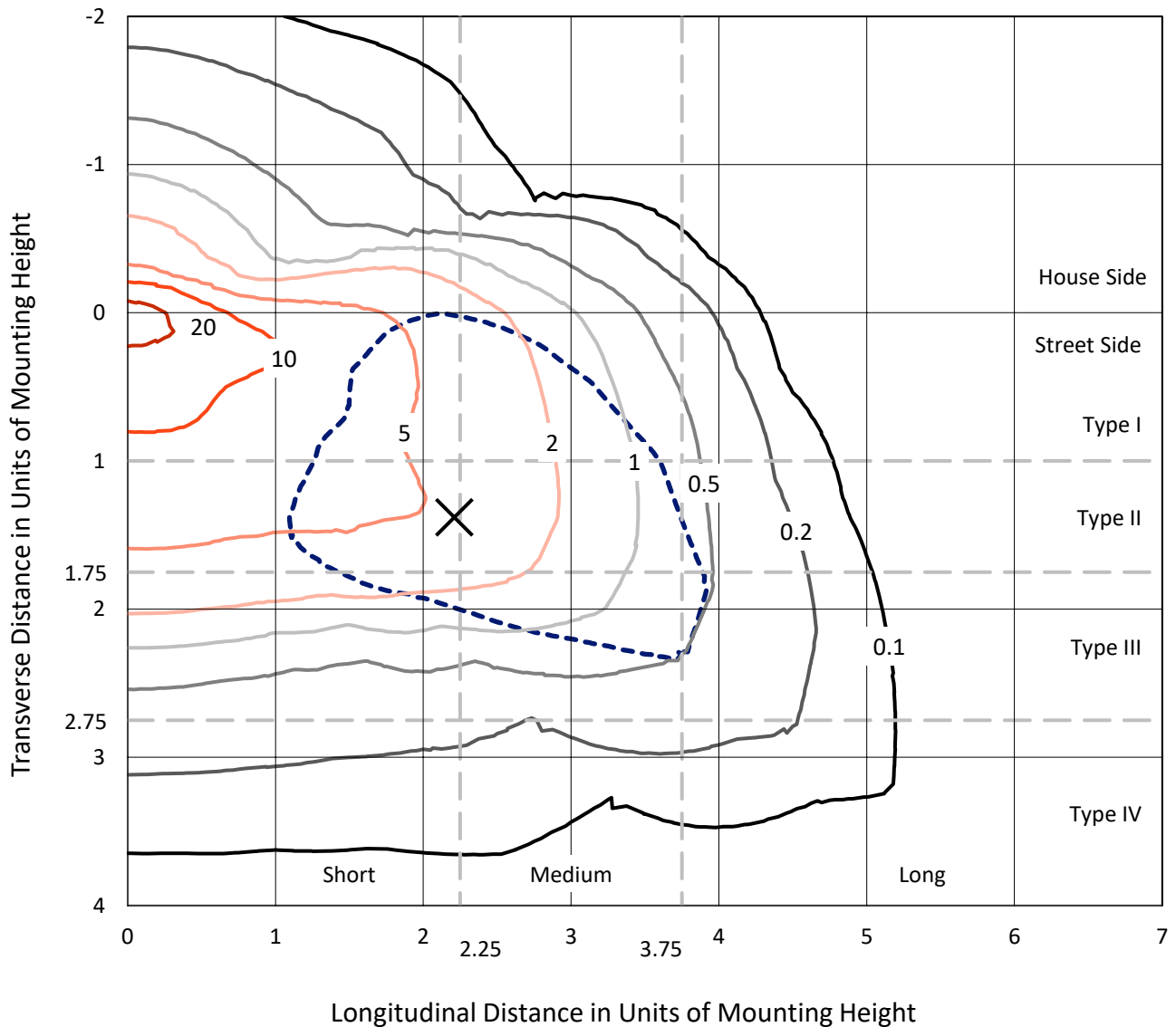
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

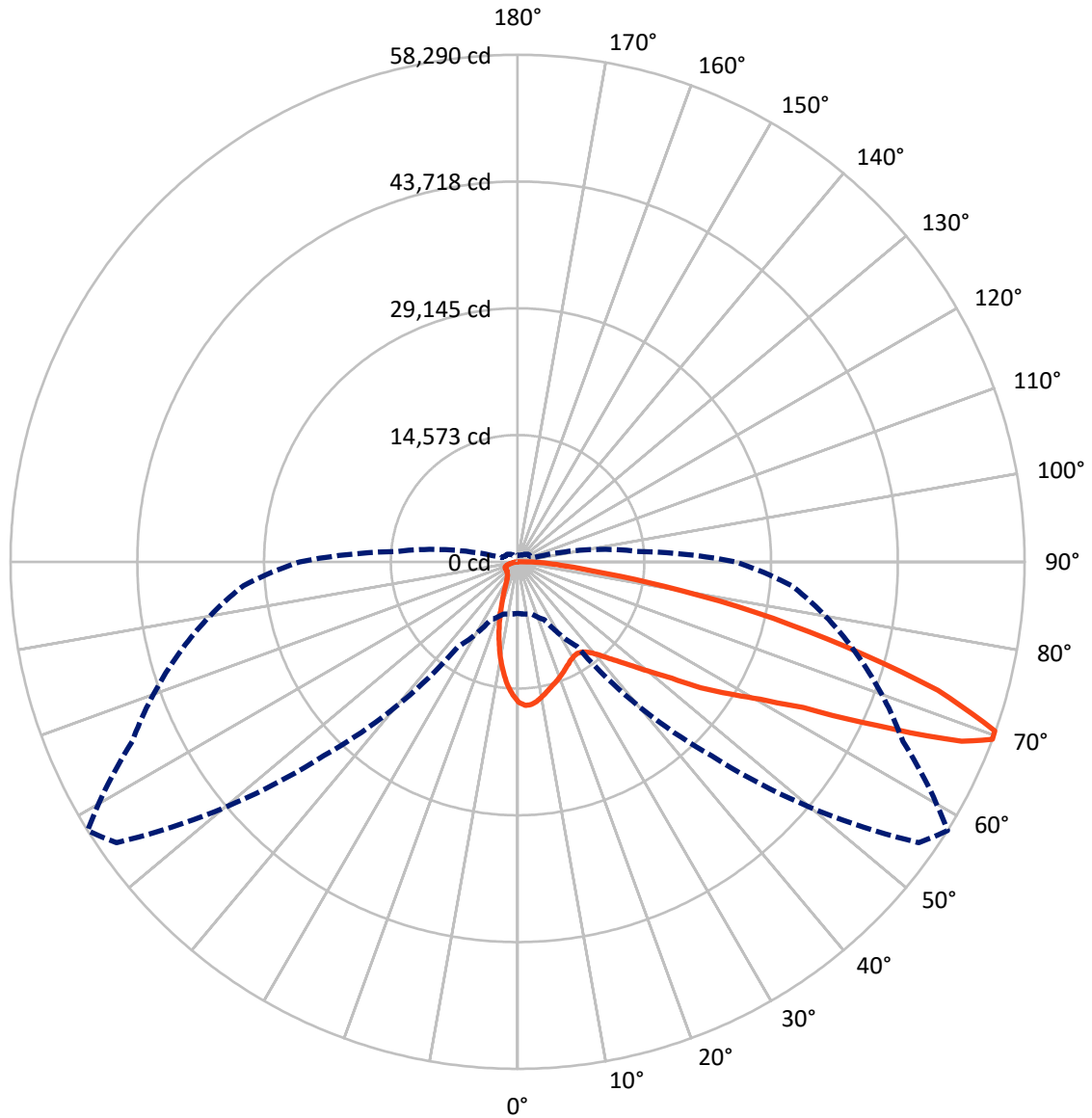
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 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	8567.1	0.0	8567.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	49891.6	0.0	49891.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	58458.7	0.0	58458.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1371.9	2.3
10°-20°	3012.5	5.2
20°-30°	3892.2	6.7
30°-40°	5055.2	8.6
40°-50°	7349.5	12.6
50°-60°	11727.4	20.1
60°-70°	15666.4	26.8
70°-80°	9031.0	15.4
80°-90°	1352.6	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°	58458.7	100.0
0°-180°	58458.7	100.0

Coefficient of Utilization

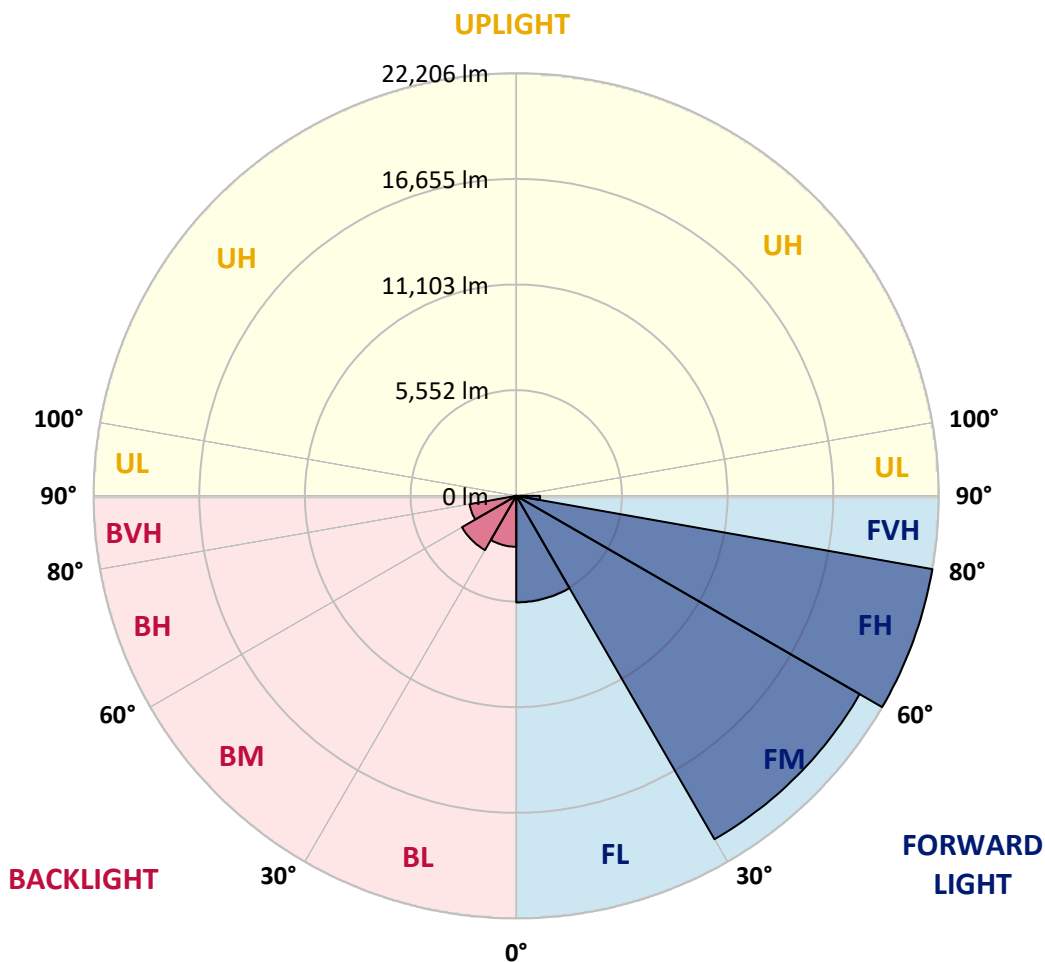


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5598.9	9.6			
FM (30°-60°)	20837.5	35.6			
FH (60°-80°)	22206.2	38.0			G5
FVH (80°-90°)	1249.0	2.1			G5
BL (0°-30°)	2677.7	4.6	B4/5000		
BM (30°-60°)	3294.6	5.6	B3/5000		
BH (60°-80°)	2491.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.6	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6
2.5°	16754.5	16800.1	16787.0	16770.8	16744.6	16673.0	16555.6	16536.0	16461.1	16301.3	16102.4
5°	16496.9	16536.0	16539.3	16562.1	16594.7	16581.7	16496.9	16487.1	16376.3	16161.1	15828.5
7.5°	15613.3	15665.6	15779.7	15906.8	16020.9	16128.5	16154.6	16170.9	16102.4	15854.6	15411.2
10°	14619.0	14671.2	14723.3	14912.4	15192.8	15460.1	15681.9	15711.1	15727.5	15499.3	14958.0
12.5°	13517.1	13624.6	13735.5	14015.9	14390.8	14811.4	15202.6	15264.5	15375.4	15202.6	14566.8
15°	12581.4	12692.2	12851.9	13102.9	13556.2	14162.5	14713.5	14814.6	15033.0	14945.0	14201.7
17.5°	11932.5	11971.6	12082.5	12369.4	12858.5	13497.5	14234.3	14436.4	14785.3	14762.4	13888.7
20°	11420.7	11469.6	11538.0	11714.1	12222.7	12897.6	13787.6	14048.5	14521.2	14599.4	13579.0
22.5°	11205.5	11241.4	11231.6	11326.2	11671.7	12349.8	13334.5	13644.2	14286.5	14488.6	13292.1
25°	11218.5	11251.2	11202.2	11179.4	11384.8	11867.4	12861.7	13256.2	14097.3	14413.6	13031.2
27.5°	11437.0	11459.8	11368.6	11277.2	11293.5	11567.4	12470.5	12907.3	13937.6	14446.2	12812.8
30°	11730.4	11772.8	11714.1	11603.3	11482.6	11495.6	12219.5	12649.8	13862.6	14560.3	12708.5
32.5°	12108.6	12147.7	12121.7	12033.6	11877.1	11704.4	12157.5	12555.3	13869.1	14791.8	12685.6
35°	12506.3	12584.6	12626.9	12620.5	12493.3	12193.3	12402.1	12731.3	14025.6	15179.8	12819.4
37.5°	12956.3	13021.5	13204.0	13321.4	13204.0	12855.2	12953.0	13181.2	14371.2	15740.5	13112.8
40°	13393.2	13491.0	13758.3	14123.4	14077.8	13771.3	13794.2	13944.1	14980.9	16575.2	13686.6
42.5°	13849.6	13966.9	14433.2	14974.3	15082.0	14844.0	14905.9	15039.6	15848.1	17732.6	14671.2
45°	14436.4	14576.6	15150.4	15825.3	16249.1	16102.4	16278.5	16343.7	17008.8	19238.8	15968.7
47.5°	15192.8	15355.8	16063.3	16904.4	17504.3	17638.0	17944.4	17905.3	18446.6	21022.1	17651.1
50°	16467.5	16558.9	17227.2	18084.6	18909.5	19512.6	19845.2	19907.1	20229.9	22756.6	19532.2
52.5°	17983.6	18065.1	18547.6	19297.5	20331.0	21609.0	22430.6	22228.5	22306.7	24869.2	21732.9
55°	19688.7	19825.6	20132.1	20630.9	21970.9	23852.0	25501.7	25550.7	24683.4	26890.6	23842.3
57.5°	21009.1	21240.5	21765.5	22476.2	24174.8	26346.2	28563.1	28595.7	27487.2	29048.9	26170.1
60°	20344.0	20617.9	21817.6	23548.8	27066.7	30698.6	32221.1	32035.3	30216.0	31507.1	29009.8
62.5°	17475.0	17523.9	19268.2	21974.2	27956.7	36521.4	37665.8	36880.0	33857.7	34624.0	31895.1
65°	11309.9	11629.3	13011.7	16803.3	25032.3	39752.3	47205.2	45389.3	38963.4	38161.3	34310.9
67.5°	7140.0	7058.4	7632.2	9595.0	17217.5	36906.1	55346.1	55059.3	45640.3	40394.6	33733.9
69°	5920.6	6011.9	6207.5	7355.1	11847.8	31510.4	56307.9	58290.1	48877.7	40218.6	31637.6
70°	5369.6	5412.0	5617.5	6520.5	9141.8	26391.8	54729.9	58202.1	50149.3	39481.8	30118.2
72.5°	4261.2	4257.9	4610.0	5425.0	6833.5	15065.7	44939.4	50530.7	48727.8	36051.9	24885.5
75°	3237.4	3289.6	3677.6	4590.4	6295.6	8232.1	31360.4	38914.4	38917.7	28475.1	15528.6
77.5°	2334.4	2366.9	2820.1	3853.6	5930.4	6673.8	20888.5	27911.0	26238.5	13047.5	4880.6
80°	1529.0	1548.6	1894.2	3051.6	5346.8	6295.6	12385.7	17083.7	12375.9	3462.4	1613.8
82.5°	837.9	935.7	1157.4	1975.7	4290.5	5816.3	7528.0	8646.2	4642.6	1542.1	841.2
85°	420.6	446.7	652.0	1154.1	2803.8	4812.1	5242.5	4958.9	2396.3	766.2	436.9
87.5°	123.9	156.5	270.6	446.7	1137.8	2507.1	2917.9	2617.9	922.7	277.1	91.2
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°	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6	16154.6
2.5°	16020.9	15962.2	15701.4	15466.7	15251.5	15023.3	14831.0	14661.4	14677.7	14680.9	14508.2
5°	15655.7	15522.1	15026.6	14563.6	14172.4	13676.8	13253.0	12979.1	12842.2	12659.6	12724.8
7.5°	15160.2	14902.6	14214.8	13445.3	12724.8	12082.5	11384.8	10905.6	10599.1	10302.4	10341.5
10°	14648.4	14234.3	13233.4	12216.2	11283.8	10256.8	9366.7	8603.9	8036.5	7824.6	7684.4
12.5°	14123.4	13579.0	12307.4	10954.4	9666.6	8437.6	7175.8	6357.5	5731.5	5399.0	5441.4
15°	13644.2	12982.3	11342.4	9692.8	8020.2	6556.4	5297.9	4518.7	4081.9	3990.5	4042.7
17.5°	13200.8	12333.5	10439.3	8466.9	6514.0	4916.5	3980.8	3540.6	3364.6	3315.6	3312.4
20°	12744.3	11782.6	9425.4	7156.2	5076.2	3811.2	3266.8	3061.4	3028.8	3048.4	3051.6
22.5°	12281.4	11101.2	8382.2	5855.5	4042.7	3116.8	2856.0	2800.5	2826.7	2872.3	2878.8
25°	11854.3	10501.3	7377.9	4714.3	3227.7	2738.6	2611.5	2611.5	2670.2	2738.6	2741.9
27.5°	11502.2	9920.9	6377.1	3742.8	2702.7	2464.7	2422.3	2445.2	2526.7	2578.8	2582.1
30°	11212.0	9379.8	5431.6	2999.4	2376.8	2246.3	2236.6	2275.7	2334.4	2383.2	2386.5
32.5°	10993.6	8903.8	4548.0	2520.1	2151.8	2080.0	2076.8	2106.1	2138.7	2151.8	2164.8
35°	10908.9	8509.2	3739.5	2217.0	2001.8	1956.2	1956.2	1952.9	1965.9	1972.5	1979.0
37.5°	10977.3	8206.1	3113.6	2021.3	1891.0	1858.4	1838.8	1819.3	1812.7	1812.7	1816.0
40°	11267.5	8046.4	2647.3	1894.2	1812.7	1763.8	1727.9	1705.1	1682.3	1688.8	1695.4
42.5°	11883.7	8075.6	2331.1	1809.4	1744.2	1675.8	1623.6	1597.6	1581.2	1600.8	1597.6
45°	12864.9	8369.0	2128.9	1750.8	1675.8	1587.7	1538.9	1512.8	1512.8	1542.1	1551.9
47.5°	14237.5	8929.8	2021.3	1705.1	1623.6	1519.3	1470.4	1450.8	1457.4	1506.2	1509.5
50°	15913.3	9904.6	2001.8	1682.3	1597.6	1470.4	1415.0	1395.4	1411.7	1463.8	1470.4
52.5°	17761.9	11159.9	2096.4	1685.5	1574.7	1441.1	1369.3	1340.0	1356.3	1398.7	1411.7
55°	19952.8	12731.3	2340.8	1698.6	1542.1	1424.7	1336.7	1271.5	1291.1	1320.4	1323.6
57.5°	22189.3	14713.5	2771.2	1701.8	1516.0	1395.4	1281.3	1196.5	1196.5	1216.1	1225.8
60°	24921.4	16871.8	3338.5	1705.1	1519.3	1353.0	1206.3	1111.7	1098.7	1108.5	1111.7
62.5°	27633.9	18678.0	3433.0	1695.4	1551.9	1310.6	1124.8	1026.9	1004.2	1000.9	994.4
65°	28830.5	18342.2	2813.6	1649.7	1587.7	1284.5	1059.6	945.5	906.3	893.3	893.3
67.5°	26880.8	15515.5	2115.9	1587.7	1564.9	1258.5	997.7	877.0	831.3	805.3	805.3
69°	25048.6	13800.6	1900.7	1545.3	1506.2	1216.1	958.5	841.2	785.7	756.4	746.6
70°	23633.6	12620.5	1809.4	1509.5	1450.8	1167.1	929.1	815.1	753.1	720.5	714.0
72.5°	18860.6	9901.4	1584.4	1372.6	1235.6	981.4	824.9	733.5	674.9	639.0	629.2
75°	10869.7	5366.4	1313.9	1193.3	994.4	762.9	697.7	639.0	593.3	560.8	551.0
77.5°	3345.0	2073.5	952.0	942.3	730.3	590.1	557.5	534.7	502.1	466.3	459.7
80°	1408.4	1056.3	645.6	635.7	485.8	410.8	401.0	397.8	384.7	355.4	345.6
82.5°	772.7	596.6	449.9	391.2	293.4	238.0	247.8	251.0	241.3	211.9	192.3
85°	378.2	326.1	218.4	176.0	133.6	84.8	81.5	97.8	91.2	65.2	71.7
87.5°	75.0	91.2	58.7	26.1	13.0	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)