

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: P459363

Luminaire Tested: **GALN-SA8B-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459363
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-SA8B-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 42425 lumens
Efficiency: N/A
Efficacy: 130.5 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

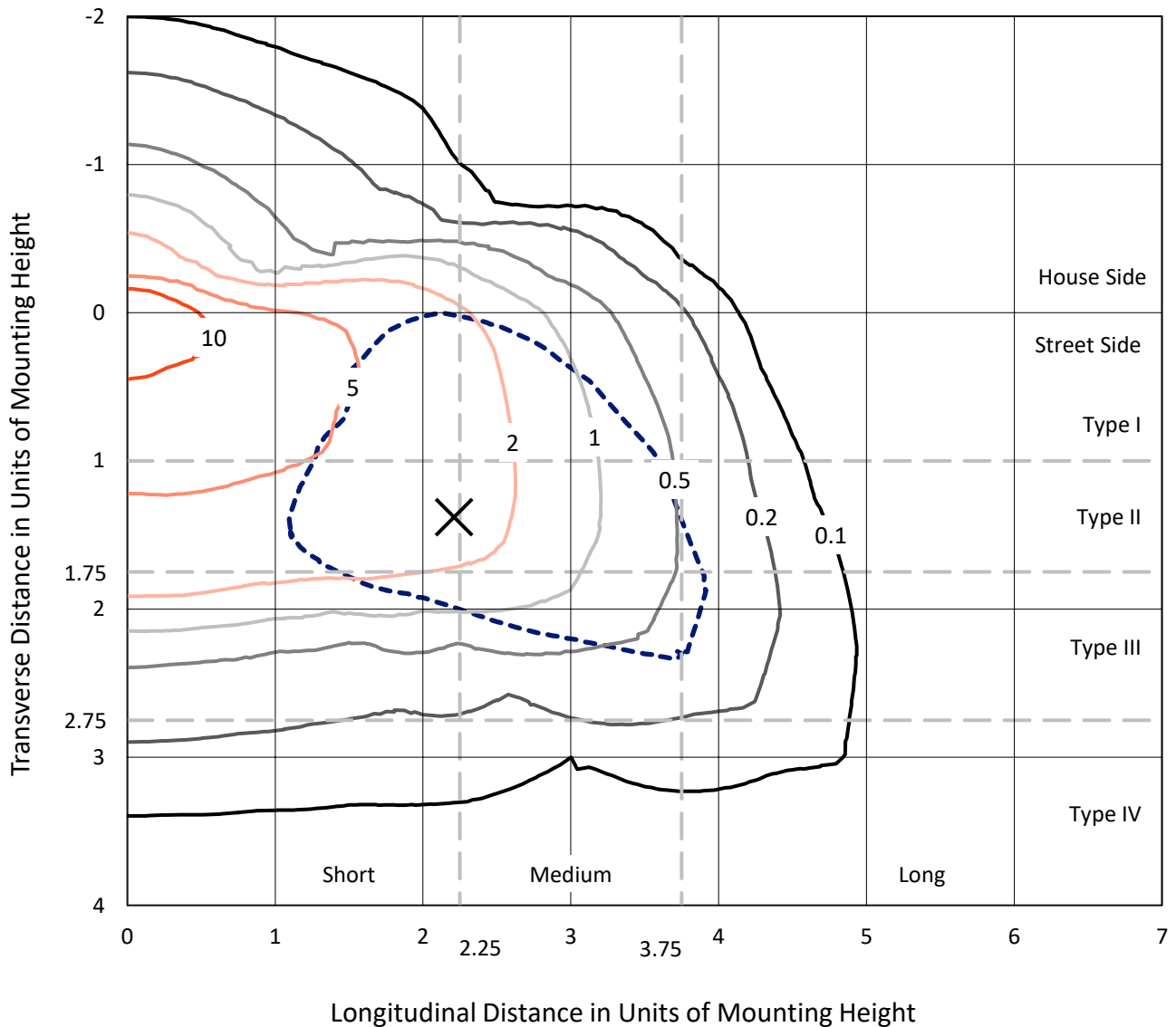
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

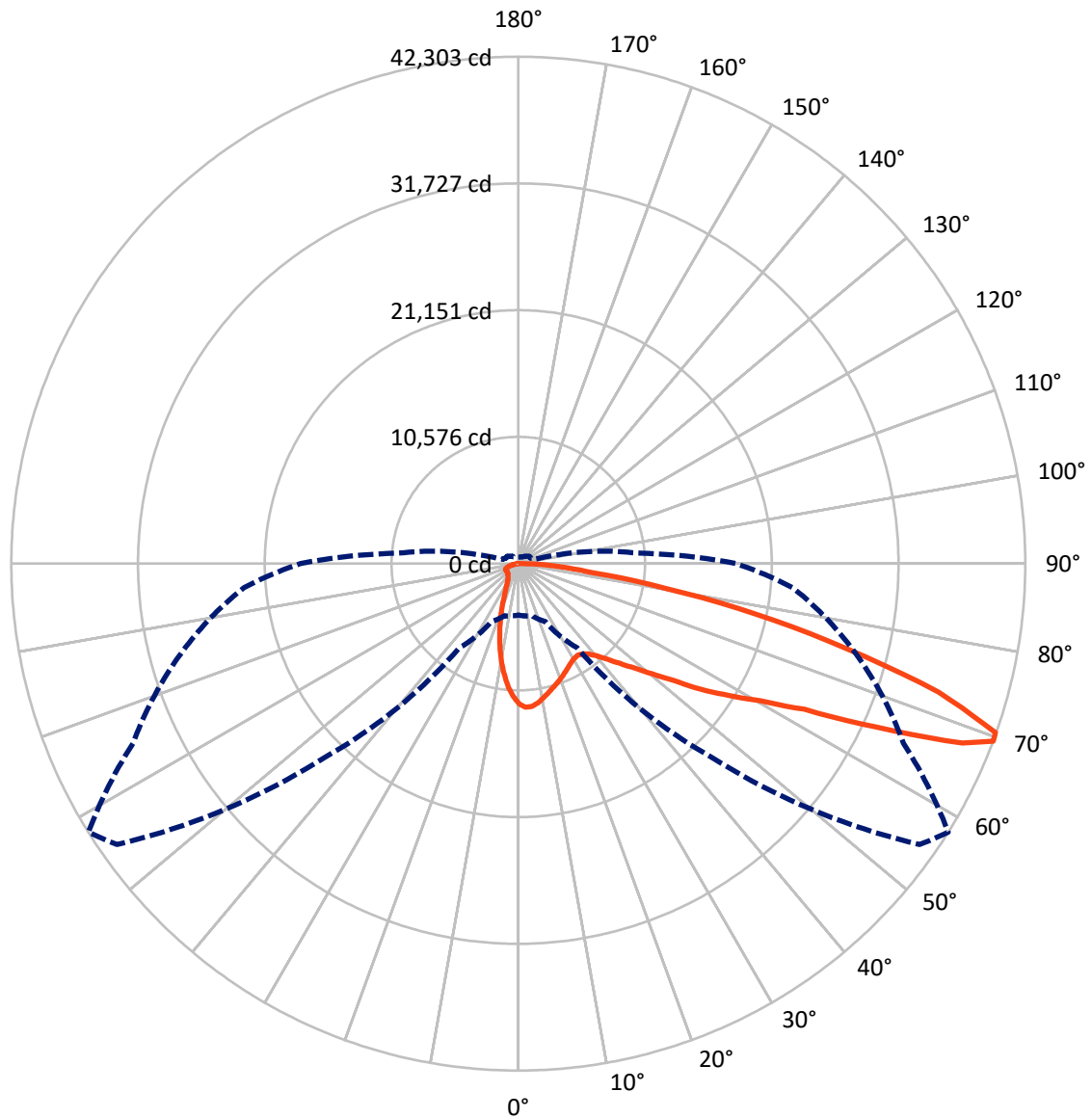
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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	6217.4	0.0	6217.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	36207.6	0.0	36207.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	42425.0	0.0	42425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.6	2.3
10°-20°	2186.2	5.2
20°-30°	2824.7	6.7
30°-40°	3668.7	8.6
40°-50°	5333.7	12.6
50°-60°	8510.9	20.1
60°-70°	11369.5	26.8
70°-80°	6554.0	15.4
80°-90°	981.7	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°	42425.0	100.0
0°-180°	42425.0	100.0

Coefficient of Utilization



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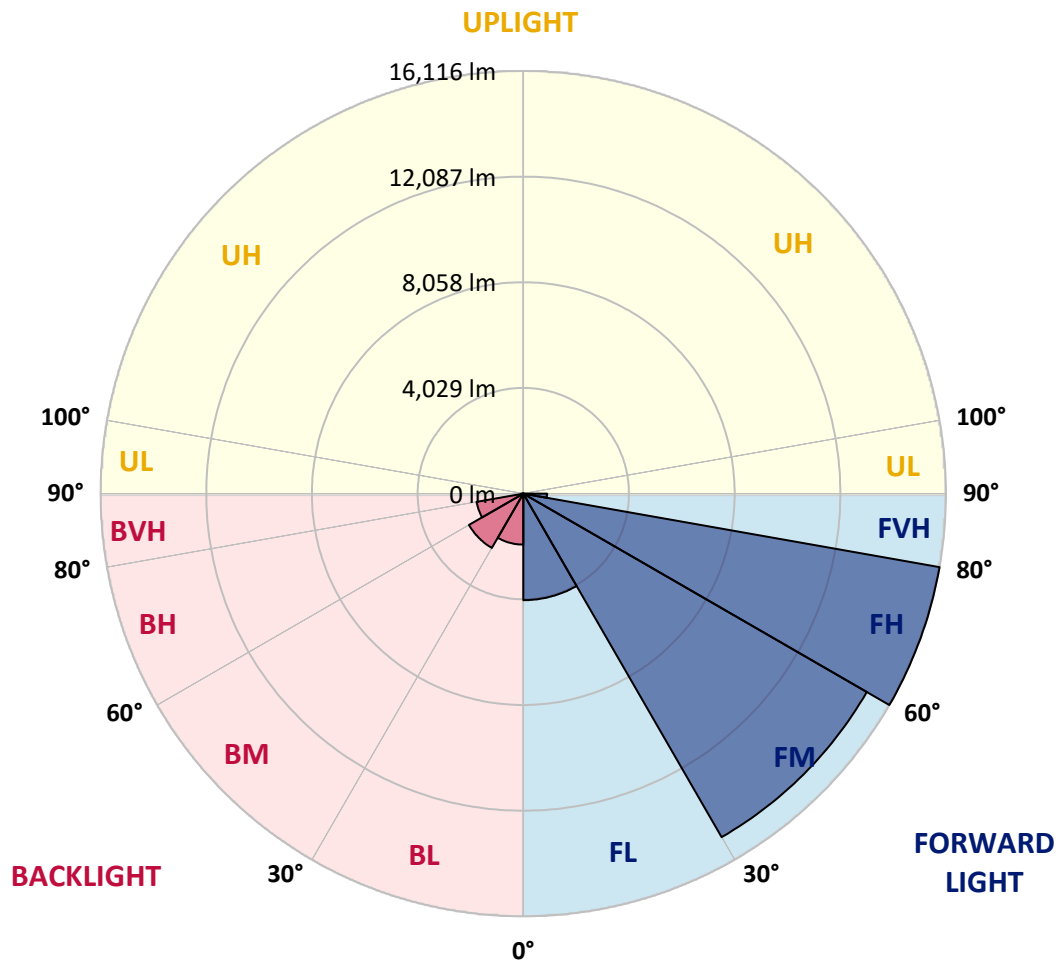
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.2	9.6			
FM (30°-60°)	15122.3	35.6			
FH (60°-80°)	16115.6	38.0			G5
FVH (80°-90°)	906.4	2.1			G5
BL (0°-30°)	1943.3	4.6	B3/2500		
BM (30°-60°)	2391.0	5.6	B2/2500		
BH (60°-80°)	1807.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	75.2	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°	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8
2.5°	12159.1	12192.3	12182.8	12171.0	12152.0	12100.0	12014.8	12000.6	11946.2	11830.3	11685.9
5°	11972.2	12000.6	12003.0	12019.5	12043.2	12033.7	11972.2	11965.1	11884.7	11728.5	11487.2
7.5°	11331.0	11368.9	11451.7	11544.0	11626.8	11704.9	11723.8	11735.6	11685.9	11506.1	11184.3
10°	10609.4	10647.2	10685.1	10822.3	11025.8	11219.8	11380.7	11402.0	11413.8	11248.2	10855.4
12.5°	9809.7	9887.7	9968.2	10171.7	10443.8	10749.0	11032.9	11077.9	11158.3	11032.9	10571.5
15°	9130.6	9211.0	9327.0	9509.2	9838.0	10278.1	10678.0	10751.3	10909.9	10846.0	10306.5
17.5°	8659.7	8688.1	8768.6	8976.8	9331.7	9795.5	10330.2	10476.9	10730.0	10713.5	10079.4
20°	8288.3	8323.8	8373.5	8501.2	8870.3	9360.1	10006.0	10195.3	10538.4	10595.2	9854.6
22.5°	8132.1	8158.1	8151.0	8219.7	8470.5	8962.6	9677.2	9901.9	10368.0	10514.7	9646.4
25°	8141.6	8165.2	8129.8	8113.2	8262.3	8612.4	9334.1	9620.4	10230.8	10460.3	9457.1
27.5°	8300.1	8316.7	8250.4	8184.2	8196.0	8394.8	9050.1	9367.2	10114.9	10484.0	9298.6
30°	8513.1	8543.8	8501.2	8420.8	8333.2	8342.7	8868.0	9180.3	10060.5	10566.8	9222.9
32.5°	8787.5	8815.9	8797.0	8733.1	8619.5	8494.1	8823.0	9111.7	10065.2	10734.8	9206.3
35°	9076.2	9133.0	9163.7	9159.0	9066.7	8849.0	9000.5	9239.4	10178.8	11016.3	9303.3
37.5°	9402.7	9450.0	9582.5	9667.7	9582.5	9329.3	9400.3	9565.9	10429.6	11423.3	9516.3
40°	9719.7	9790.7	9984.7	10249.7	10216.6	9994.2	10010.8	10119.6	10872.0	12029.0	9932.7
42.5°	10051.0	10136.2	10474.5	10867.3	10945.4	10772.6	10817.6	10914.6	11501.4	12869.0	10647.2
45°	10476.9	10578.6	10995.0	11484.8	11792.4	11685.9	11813.7	11861.0	12343.7	13962.1	11588.9
47.5°	11025.8	11144.1	11657.5	12268.0	12703.3	12800.3	13022.7	12994.4	13387.1	15256.3	12809.8
50°	11950.9	12017.2	12502.2	13124.5	13723.1	14160.8	14402.2	14447.1	14681.4	16515.0	14175.0
52.5°	13051.1	13110.3	13460.5	14004.7	14754.7	15682.2	16278.4	16131.7	16188.5	18048.2	15772.1
55°	14288.6	14388.0	14610.4	14972.4	15944.8	17310.0	18507.3	18542.7	17913.4	19515.2	17302.9
57.5°	15246.8	15414.8	15795.8	16311.6	17544.3	19120.1	20729.0	20752.6	19948.2	21081.5	18992.3
60°	14764.2	14962.9	15833.6	17090.0	19643.0	22278.7	23383.7	23248.8	21928.6	22865.5	21053.1
62.5°	12682.0	12717.5	13983.4	15947.2	20288.9	26504.5	27335.0	26764.8	24571.4	25127.5	23147.1
65°	8207.8	8439.7	9442.9	12194.6	18166.5	28849.3	34258.1	32940.2	28276.7	27694.6	24900.3
67.5°	5181.7	5122.5	5538.9	6963.3	12495.1	26783.7	40166.1	39957.9	33122.4	29315.4	24481.5
69°	4296.7	4363.0	4505.0	5337.8	8598.2	22867.9	40864.1	42302.6	35471.8	29187.6	22960.2
70°	3896.9	3927.6	4076.7	4732.1	6634.4	19153.2	39718.9	42238.8	36394.6	28652.9	21857.6
72.5°	3092.4	3090.1	3345.6	3937.1	4959.2	10933.5	32613.7	36671.4	35363.0	26163.8	18060.1
75°	2349.5	2387.3	2668.9	3331.4	4568.8	5974.3	22759.1	28241.2	28243.6	20665.1	11269.5
77.5°	1694.1	1717.8	2046.6	2796.7	4303.8	4843.3	15159.3	20255.8	19042.0	9468.9	3542.0
80°	1109.7	1123.9	1374.7	2214.6	3880.3	4568.8	8988.6	12398.1	8981.5	2512.7	1171.2
82.5°	608.1	679.1	839.9	1433.8	3113.7	4221.0	5463.2	6274.8	3369.3	1119.1	610.4
85°	305.2	324.1	473.2	837.6	2034.8	3492.3	3804.6	3598.8	1739.0	556.0	317.1
87.5°	89.9	113.6	196.4	324.1	825.8	1819.5	2117.6	1899.9	669.6	201.1	66.2
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°	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8	11723.8
2.5°	11626.8	11584.2	11394.9	11224.5	11068.4	10902.8	10763.2	10640.1	10652.0	10654.3	10528.9
5°	11361.8	11264.8	10905.1	10569.2	10285.2	9925.6	9618.0	9419.3	9319.9	9187.4	9234.7
7.5°	11002.1	10815.2	10316.0	9757.6	9234.7	8768.6	8262.3	7914.4	7692.0	7476.7	7505.1
10°	10630.7	10330.2	9603.8	8865.6	8188.9	7443.6	6797.7	6244.0	5832.3	5678.5	5576.8
12.5°	10249.7	9854.6	8931.8	7949.9	7015.3	6123.3	5207.7	4613.8	4159.5	3918.2	3948.9
15°	9901.9	9421.6	8231.5	7034.3	5820.5	4758.1	3844.8	3279.3	2962.3	2896.0	2933.9
17.5°	9580.1	8950.8	7576.1	6144.6	4727.4	3568.0	2888.9	2569.5	2441.8	2406.3	2403.9
20°	9248.9	8550.9	6840.3	5193.5	3683.9	2765.9	2370.8	2221.7	2198.1	2212.3	2214.6
22.5°	8912.9	8056.4	6083.1	4249.4	2933.9	2261.9	2072.7	2032.4	2051.4	2084.5	2089.2
25°	8603.0	7621.1	5354.4	3421.3	2342.4	1987.5	1895.2	1895.2	1937.8	1987.5	1989.8
27.5°	8347.4	7199.9	4628.0	2716.2	1961.5	1788.7	1758.0	1774.5	1833.7	1871.5	1873.9
30°	8136.9	6807.1	3941.8	2176.8	1724.9	1630.2	1623.1	1651.5	1694.1	1729.6	1731.9
32.5°	7978.3	6461.7	3300.6	1829.0	1561.6	1509.5	1507.2	1528.5	1552.1	1561.6	1571.1
35°	7916.8	6175.4	2713.9	1608.9	1452.8	1419.6	1419.6	1417.3	1426.7	1431.5	1436.2
37.5°	7966.5	5955.4	2259.6	1467.0	1372.3	1348.6	1334.5	1320.3	1315.5	1315.5	1317.9
40°	8177.1	5839.4	1921.2	1374.7	1315.5	1280.0	1254.0	1237.4	1220.9	1225.6	1230.3
42.5°	8624.3	5860.7	1691.7	1313.2	1265.8	1216.2	1178.3	1159.4	1147.5	1161.7	1159.4
45°	9336.4	6073.7	1545.0	1270.6	1216.2	1152.3	1116.8	1097.8	1097.8	1119.1	1126.2
47.5°	10332.5	6480.6	1467.0	1237.4	1178.3	1102.6	1067.1	1052.9	1057.6	1093.1	1095.5
50°	11548.7	7188.1	1452.8	1220.9	1159.4	1067.1	1026.9	1012.7	1024.5	1062.4	1067.1
52.5°	12890.2	8099.0	1521.4	1223.2	1142.8	1045.8	993.7	972.4	984.3	1015.0	1024.5
55°	14480.2	9239.4	1698.8	1232.7	1119.1	1034.0	970.1	922.8	937.0	958.3	960.6
57.5°	16103.3	10678.0	2011.1	1235.1	1100.2	1012.7	929.9	868.3	868.3	882.5	889.6
60°	18086.1	12244.3	2422.8	1237.4	1102.6	981.9	875.4	806.8	797.4	804.5	806.8
62.5°	20054.7	13555.1	2491.5	1230.3	1126.2	951.2	816.3	745.3	728.7	726.4	721.6
65°	20923.0	13311.4	2041.9	1197.2	1152.3	932.2	769.0	686.2	657.8	648.3	648.3
67.5°	19508.1	11260.0	1535.6	1152.3	1135.7	913.3	724.0	636.5	603.3	584.4	584.4
69°	18178.4	10015.5	1379.4	1121.5	1093.1	882.5	695.6	610.4	570.2	548.9	541.8
70°	17151.5	9159.0	1313.2	1095.5	1052.9	847.0	674.3	591.5	546.6	522.9	518.2
72.5°	13687.6	7185.7	1149.9	996.1	896.7	712.2	598.6	532.4	489.8	463.7	456.6
75°	7888.4	3894.5	953.5	866.0	721.6	553.7	506.3	463.7	430.6	407.0	399.9
77.5°	2427.6	1504.8	690.9	683.8	530.0	428.3	404.6	388.0	364.4	338.3	333.6
80°	1022.1	766.6	468.5	461.4	352.5	298.1	291.0	288.7	279.2	257.9	250.8
82.5°	560.8	433.0	326.5	283.9	212.9	172.7	179.8	182.2	175.1	153.8	139.6
85°	274.5	236.6	158.5	127.8	97.0	61.5	59.2	71.0	66.2	47.3	52.1
87.5°	54.4	66.2	42.6	18.9	9.5	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)