

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: P456956

Luminaire Tested: **GALN-SA8B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456956
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-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 41476 lumens
Efficiency: N/A
Efficacy: 127.6 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

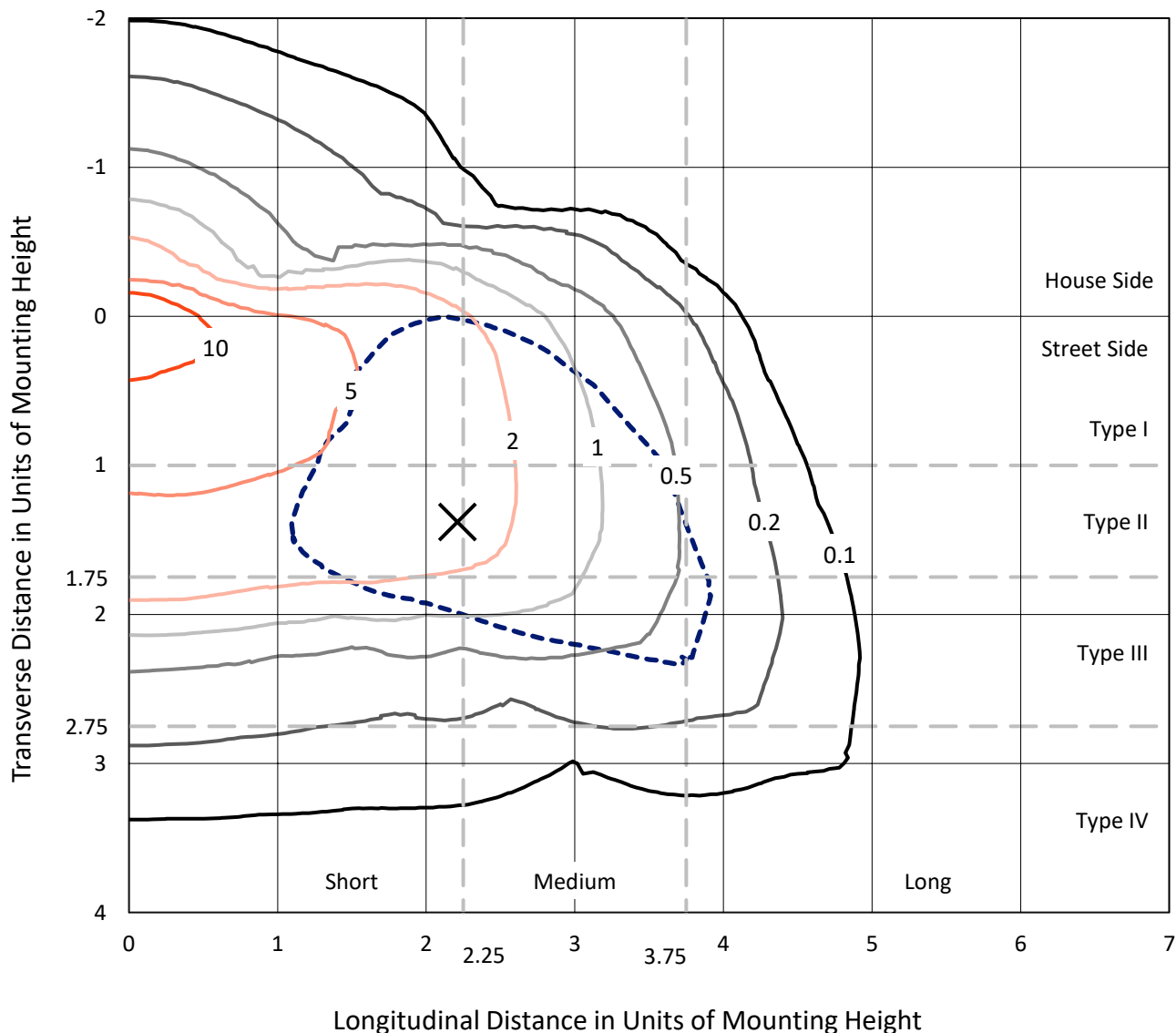
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456956
 CATALOG NUMBER: GALN-SA8B-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

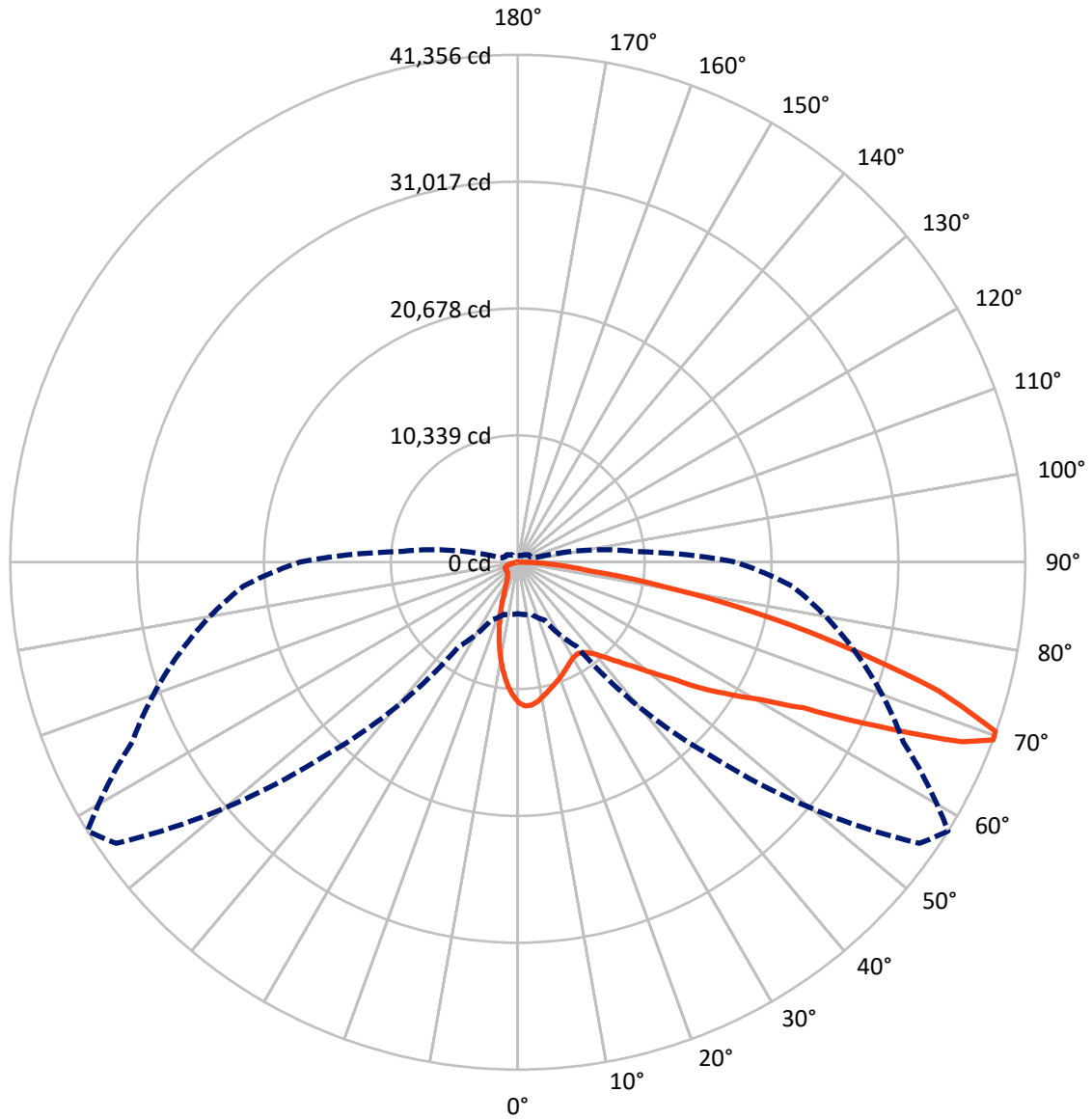
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Short - N/A

REPORT NUMBER: P456956
CATALOG NUMBER: GALN-SA8B-730-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P456956

CATALOG NUMBER: GALN-SA8B-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6078.3	0.0	6078.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35397.7	0.0	35397.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	41476.0	0.0	41476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	973.4	2.3
10°-20°	2137.3	5.2
20°-30°	2761.5	6.7
30°-40°	3586.6	8.6
40°-50°	5214.4	12.6
50°-60°	8320.5	20.1
60°-70°	11115.2	26.8
70°-80°	6407.4	15.4
80°-90°	959.7	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°	41476.0	100.0
0°-180°	41476.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456956

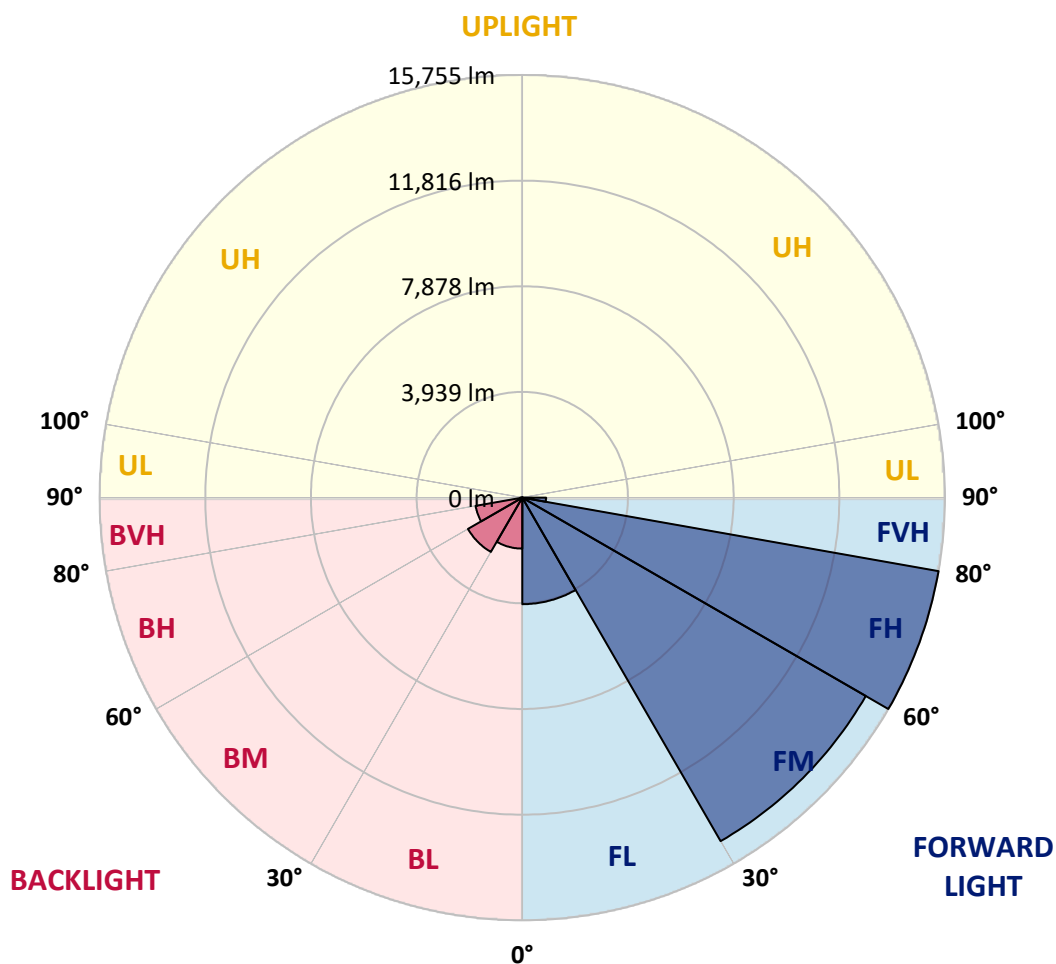
CATALOG NUMBER: GALN-SA8B-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3972.3	9.6			
FM	(30°-60°)	14784.0	35.6			
FH	(60°-80°)	15755.1	38.0			G5
FVH	(80°-90°)	886.2	2.1			G5
BL	(0°-30°)	1899.8	4.6	B3/2500		
BM	(30°-60°)	2337.5	5.6	B2/2500		
BH	(60°-80°)	1767.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	73.5	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





REPORT NUMBER: P456956

CATALOG NUMBER: GALN-SA8B-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5
2.5°	11887.2	11919.5	11910.3	11898.7	11880.2	11829.3	11746.1	11732.2	11679.0	11565.6	11424.5
5°	11704.4	11732.2	11734.5	11750.7	11773.8	11764.6	11704.4	11697.5	11618.8	11466.2	11230.2
7.5°	11077.6	11114.6	11195.5	11285.7	11366.7	11443.0	11461.5	11473.1	11424.5	11248.7	10934.1
10°	10372.1	10409.1	10446.1	10580.2	10779.2	10968.8	11126.1	11147.0	11158.5	10996.6	10612.6
12.5°	9590.2	9666.6	9745.2	9944.1	10210.1	10508.5	10786.1	10830.1	10908.7	10786.1	10335.0
15°	8926.4	9005.0	9118.3	9296.5	9618.0	10048.2	10439.1	10510.8	10665.8	10603.4	10076.0
17.5°	8466.0	8493.8	8572.4	8776.0	9123.0	9576.3	10099.1	10242.5	10490.0	10473.8	9853.9
20°	8102.9	8137.6	8186.2	8311.1	8671.9	9150.7	9782.2	9967.3	10302.7	10358.2	9634.2
22.5°	7950.2	7975.7	7968.7	8035.8	8281.0	8762.1	9460.7	9680.4	10136.1	10279.5	9430.6
25°	7959.5	7982.6	7947.9	7931.7	8077.4	8419.8	9125.3	9405.2	10002.0	10226.3	9245.6
27.5°	8114.4	8130.6	8065.9	8001.1	8012.7	8207.0	8847.7	9157.7	9888.6	10249.5	9090.6
30°	8322.6	8352.7	8311.1	8232.4	8146.8	8156.1	8669.6	8974.9	9835.4	10330.4	9016.6
32.5°	8590.9	8618.7	8600.2	8537.7	8426.7	8304.1	8625.6	8907.8	9840.0	10494.7	9000.4
35°	8873.2	8928.7	8958.7	8954.1	8863.9	8651.1	8799.1	9032.8	9951.1	10769.9	9095.2
37.5°	9192.4	9238.6	9368.2	9451.4	9368.2	9120.7	9190.0	9352.0	10196.3	11167.8	9303.4
40°	9502.3	9571.7	9761.4	10020.5	9988.1	9770.6	9786.8	9893.2	10628.8	11759.9	9710.5
42.5°	9826.2	9909.4	10240.2	10624.2	10700.5	10531.7	10575.6	10670.4	11244.1	12581.1	10409.1
45°	10242.5	10342.0	10749.1	11227.9	11528.6	11424.5	11549.4	11595.7	12067.6	13649.8	11329.7
47.5°	10779.2	10894.8	11396.8	11993.6	12419.2	12514.0	12731.4	12703.7	13087.7	14915.0	12523.3
50°	11683.6	11748.4	12222.6	12830.9	13416.1	13844.1	14080.0	14123.9	14352.9	16145.6	13857.9
52.5°	12759.2	12817.0	13159.4	13691.4	14424.7	15331.4	15914.3	15770.9	15826.4	17644.5	15419.3
55°	13969.0	14066.1	14283.6	14637.5	15588.2	16922.8	18093.3	18128.0	17512.7	19078.7	16915.9
57.5°	14905.8	15070.0	15442.4	15946.7	17151.8	18692.4	20265.3	20288.4	19502.0	20610.0	18567.5
60°	14433.9	14628.2	15479.4	16707.7	19203.6	21780.4	22860.6	22728.8	21438.0	22354.0	20582.2
62.5°	12398.4	12433.1	13670.6	15590.5	19835.1	25911.6	26723.5	26166.1	24021.8	24565.4	22629.3
65°	8024.2	8250.9	9231.7	11921.9	17760.2	28203.9	33491.7	32203.3	27644.2	27075.1	24343.3
67.5°	5065.7	5007.9	5415.0	6807.5	12215.6	26184.6	39267.6	39064.1	32381.4	28659.6	23933.9
69°	4200.6	4265.4	4404.2	5218.4	8405.9	22356.4	39950.0	41356.4	34678.4	28534.7	22446.6
70°	3809.7	3839.8	3985.5	4626.3	6486.0	18724.8	38830.4	41293.9	35580.5	28012.0	21368.7
72.5°	3023.3	3020.9	3270.8	3849.0	4848.3	10689.0	31884.1	35851.1	34572.0	25578.5	17656.1
75°	2296.9	2333.9	2609.2	3256.9	4466.6	5840.6	22250.0	27609.5	27611.8	20202.8	11017.4
77.5°	1656.2	1679.3	2000.9	2734.1	4207.6	4735.0	14820.2	19802.7	18616.0	9257.1	3462.7
80°	1084.9	1098.7	1343.9	2165.1	3793.5	4466.6	8787.6	12120.8	8780.6	2456.5	1145.0
82.5°	594.5	663.9	821.2	1401.8	3044.1	4126.6	5341.0	6134.4	3293.9	1094.1	596.8
85°	298.4	316.9	462.6	818.8	1989.3	3414.2	3719.5	3518.3	1700.1	543.6	310.0
87.5°	87.9	111.0	192.0	316.9	807.3	1778.8	2070.2	1857.4	654.6	196.6	64.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456956
 CATALOG NUMBER: GALN-SA8B-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5	11461.5
2.5°	11366.7	11325.1	11140.0	10973.5	10820.8	10658.9	10522.4	10402.1	10413.7	10416.0	10293.4
5°	11107.6	11012.8	10661.2	10332.7	10055.2	9703.6	9402.9	9208.6	9111.4	8981.9	9028.1
7.5°	10756.0	10573.3	10085.2	9539.3	9028.1	8572.4	8077.4	7737.4	7520.0	7309.5	7337.2
10°	10392.9	10099.1	9389.0	8667.3	8005.7	7277.1	6645.6	6104.3	5701.9	5551.5	5452.0
12.5°	10020.5	9634.2	8732.0	7772.1	6858.4	5986.4	5091.2	4510.6	4066.5	3830.5	3860.6
15°	9680.4	9210.9	8047.4	6876.9	5690.3	4651.7	3758.8	3206.0	2896.0	2831.3	2868.3
17.5°	9365.8	8750.6	7406.6	6007.2	4621.6	3488.2	2824.3	2512.1	2387.1	2352.4	2350.1
20°	9042.0	8359.6	6687.2	5077.3	3601.5	2704.0	2317.8	2172.0	2148.9	2162.8	2165.1
22.5°	8713.5	7876.2	5947.0	4154.4	2868.3	2211.3	2026.3	1987.0	2005.5	2037.9	2042.5
25°	8410.5	7450.6	5234.6	3344.8	2290.0	1943.0	1852.8	1852.8	1894.5	1943.0	1945.3
27.5°	8160.7	7038.8	4524.5	2655.5	1917.6	1748.7	1718.7	1734.8	1792.7	1829.7	1832.0
30°	7954.8	6654.9	3853.7	2128.1	1686.3	1593.7	1586.8	1614.6	1656.2	1690.9	1693.2
32.5°	7799.9	6317.1	3226.8	1788.0	1526.7	1475.8	1473.5	1494.3	1517.4	1526.7	1535.9
35°	7739.7	6037.3	2653.2	1572.9	1420.3	1387.9	1387.9	1385.6	1394.8	1399.4	1404.1
37.5°	7788.3	5822.1	2209.0	1434.1	1341.6	1318.5	1304.6	1290.7	1286.1	1286.1	1288.4
40°	7994.2	5708.8	1878.3	1343.9	1286.1	1251.4	1226.0	1209.8	1193.6	1198.2	1202.8
42.5°	8431.3	5729.6	1653.9	1283.8	1237.5	1188.9	1151.9	1133.4	1121.9	1135.7	1133.4
45°	9127.6	5937.8	1510.5	1242.1	1188.9	1126.5	1091.8	1073.3	1073.3	1094.1	1101.0
47.5°	10101.4	6335.7	1434.1	1209.8	1151.9	1077.9	1043.2	1029.3	1034.0	1068.7	1071.0
50°	11290.4	7027.3	1420.3	1193.6	1133.4	1043.2	1003.9	990.0	1001.6	1038.6	1043.2
52.5°	12601.9	7917.8	1487.3	1195.9	1117.2	1022.4	971.5	950.7	962.3	992.3	1001.6
55°	14156.3	9032.8	1660.8	1205.1	1094.1	1010.8	948.4	902.1	916.0	936.8	939.1
57.5°	15743.1	10439.1	1966.2	1207.5	1075.6	990.0	909.1	848.9	848.9	862.8	869.7
60°	17681.5	11970.4	2368.6	1209.8	1077.9	959.9	855.9	788.8	779.5	786.5	788.8
62.5°	19606.1	13251.9	2435.7	1202.8	1101.0	929.9	798.0	728.6	712.4	710.1	705.5
65°	20455.0	13013.6	1996.2	1170.4	1126.5	911.4	751.8	670.8	643.0	633.8	633.8
67.5°	19071.7	11008.2	1501.2	1126.5	1110.3	892.9	707.8	622.2	589.8	571.3	571.3
69°	17771.7	9791.5	1348.6	1096.4	1068.7	862.8	680.1	596.8	557.5	536.6	529.7
70°	16767.8	8954.1	1283.8	1071.0	1029.3	828.1	659.2	578.3	534.3	511.2	506.6
72.5°	13381.4	7025.0	1124.2	973.8	876.7	696.3	585.2	520.5	478.8	453.4	446.4
75°	7712.0	3807.4	932.2	846.6	705.5	541.3	495.0	453.4	421.0	397.9	390.9
77.5°	2373.3	1471.1	675.4	668.5	518.1	418.7	395.5	379.4	356.2	330.8	326.2
80°	999.3	749.5	458.0	451.1	344.7	291.5	284.5	282.2	272.9	252.1	245.2
82.5°	548.2	423.3	319.2	277.6	208.2	168.9	175.8	178.1	171.2	150.4	136.5
85°	268.3	231.3	155.0	124.9	94.8	60.1	57.8	69.4	64.8	46.3	50.9
87.5°	53.2	64.8	41.6	18.5	9.3	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)