

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: P532874

Luminaire Tested: **GALN-SA8B-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36529 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

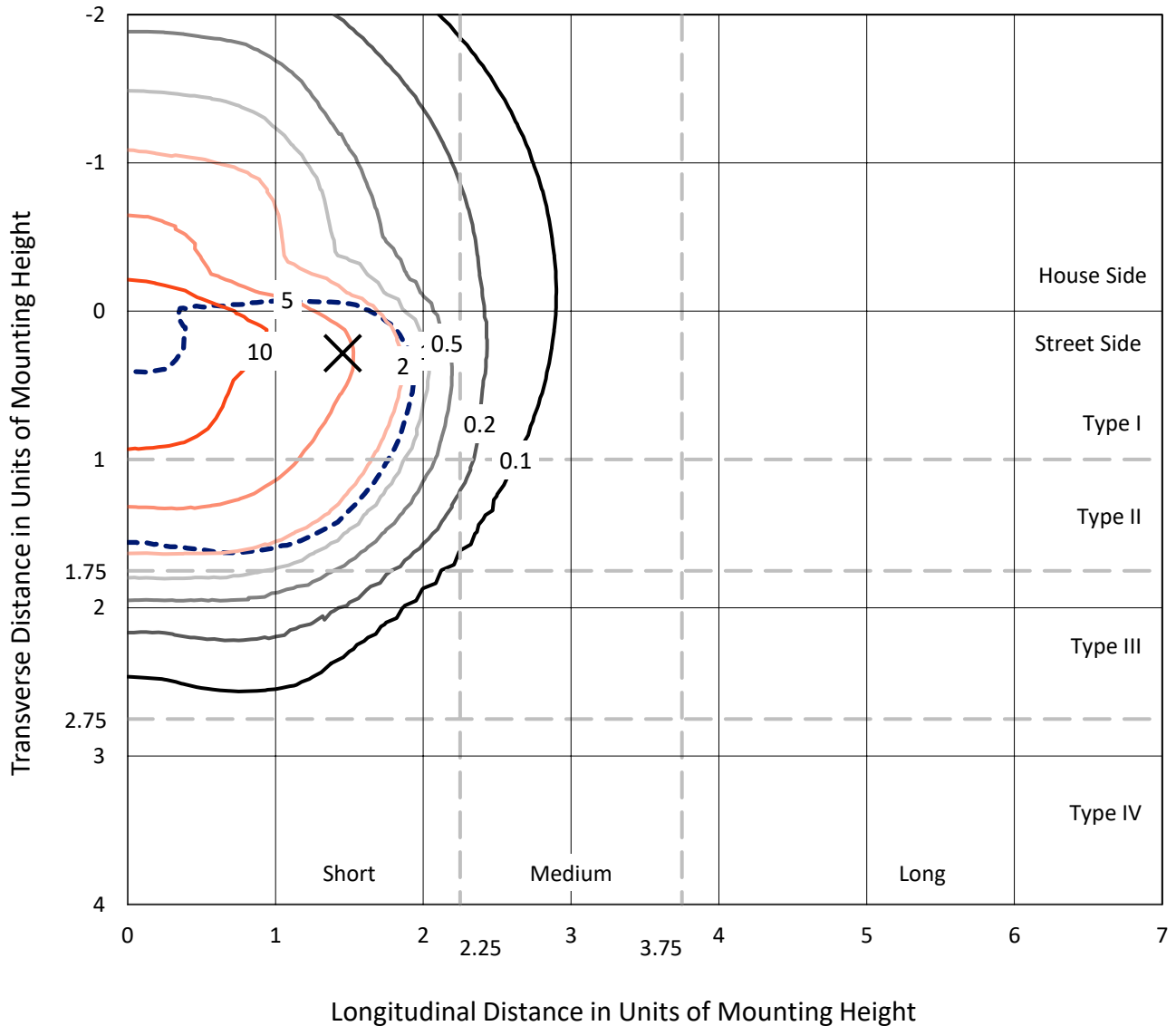
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

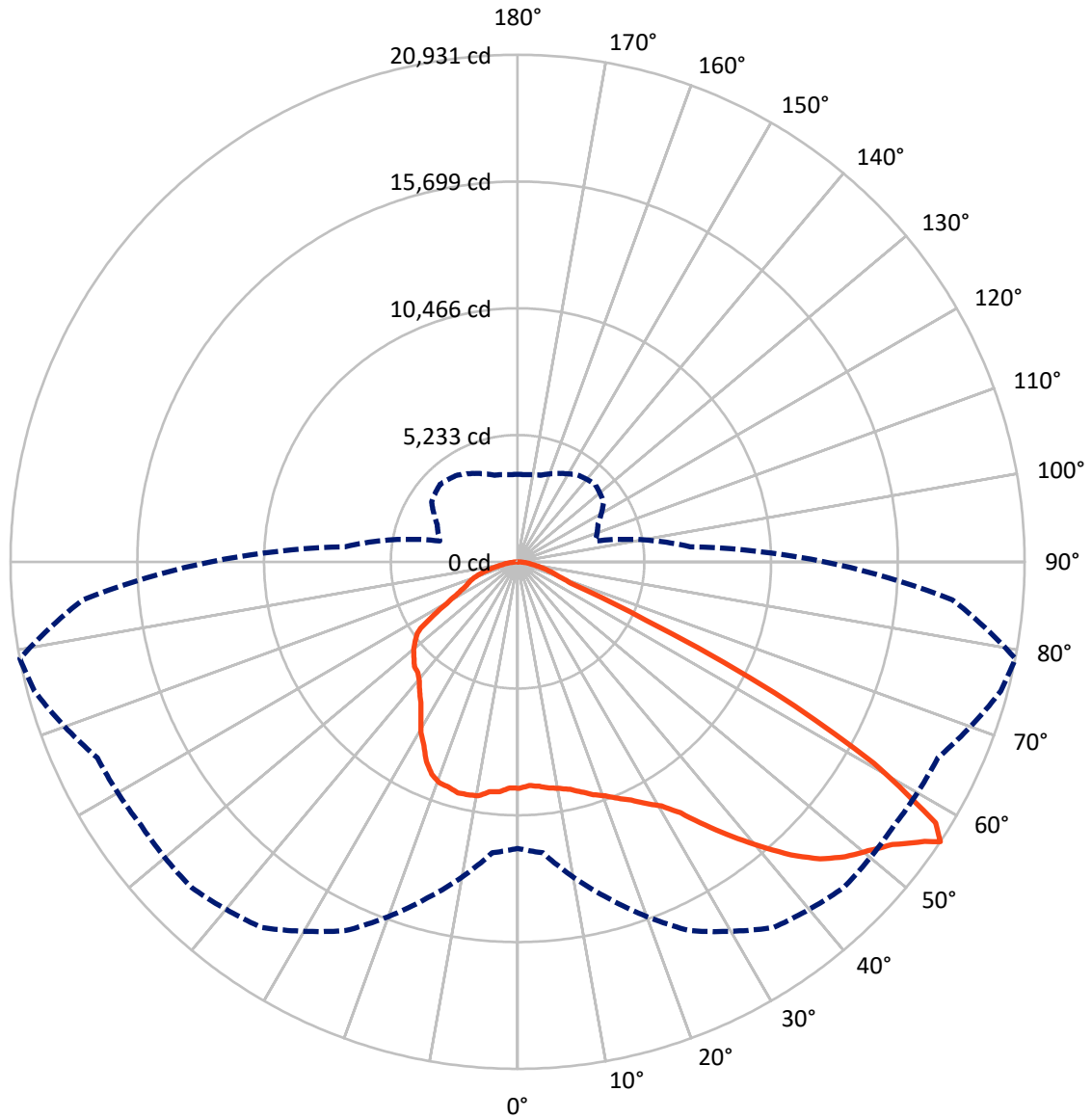
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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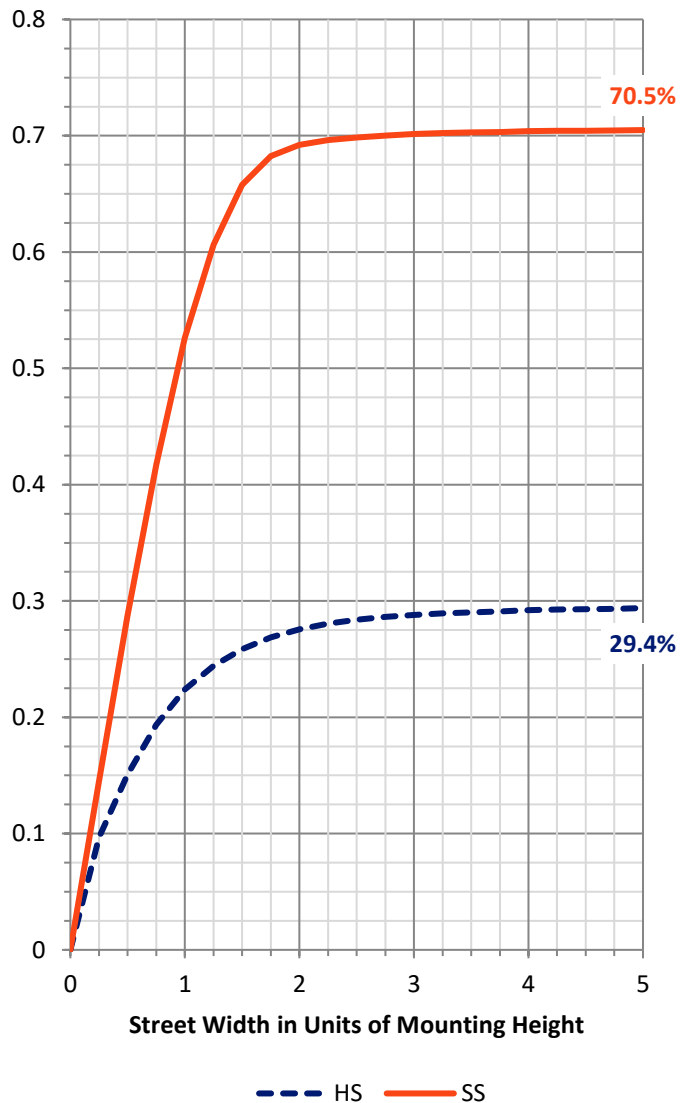
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10787.8	0.0	10787.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	25741.2	0.0	25741.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	36529.0	0.0	36529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.8	2.3
10°-20°	2325.6	6.4
20°-30°	3978.6	10.9
30°-40°	6097.7	16.7
40°-50°	8240.9	22.6
50°-60°	9465.0	25.9
60°-70°	4314.4	11.8
70°-80°	1063.7	2.9
80°-90°	193.3	0.5
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°	36529.0	100.0
0°-180°	36529.0	100.0

Coefficient of Utilization

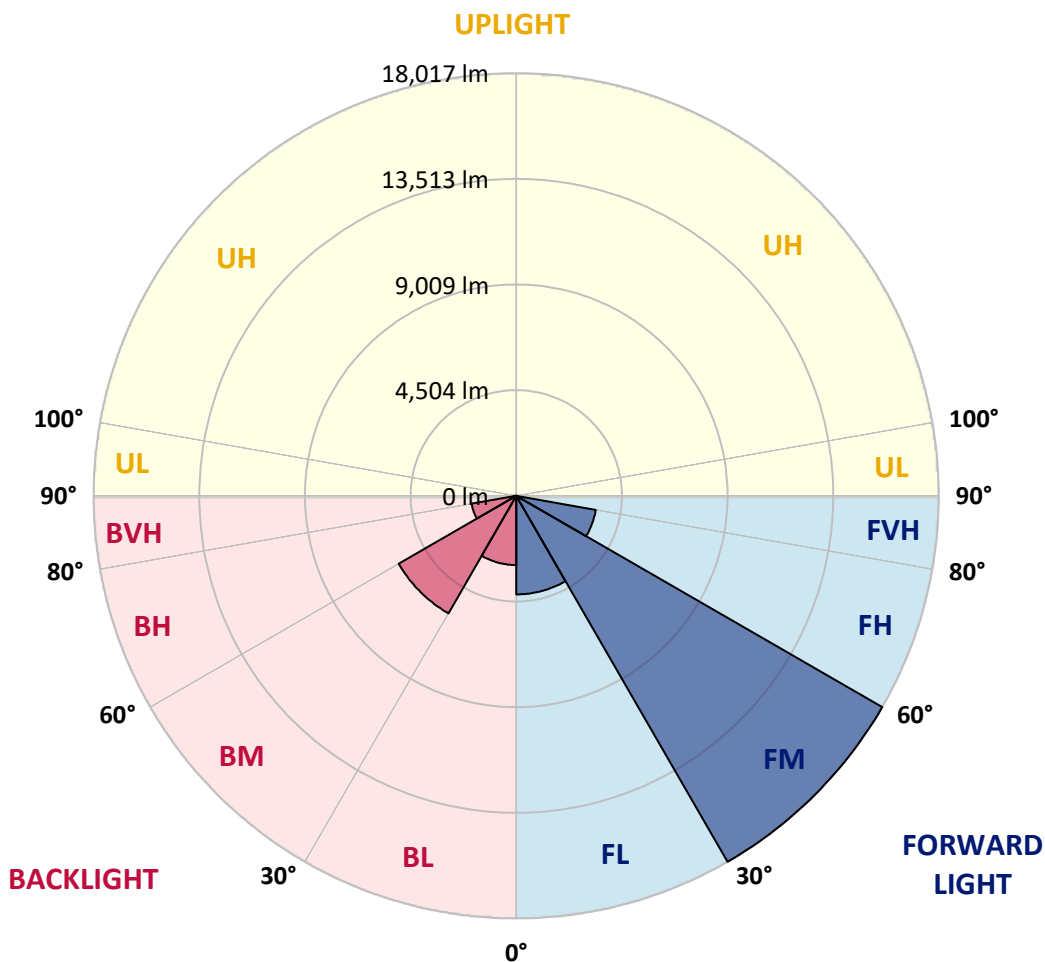


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4203.0	11.5			
FM (30°-60°)	18017.2	49.3			
FH (60°-80°)	3443.8	9.4			G2/5000
FVH (80°-90°)	77.2	0.2			G1/100
BL (0°-30°)	2950.9	8.1	B4/5000		
BM (30°-60°)	5786.4	15.8	B4/8500		
BH (60°-80°)	1934.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	116.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3
2.5°	8891.3	8868.5	8923.1	8964.1	9014.2	9077.9	9109.7	9127.9	9287.2	9246.2	9369.1
5°	8700.2	8641.0	8682.0	8713.8	8800.3	8877.6	8964.1	9100.6	9246.2	9309.9	9460.1
7.5°	8531.8	8500.0	8490.9	8513.6	8631.9	8732.0	8882.2	9082.4	9319.0	9423.7	9510.1
10°	8254.3	8208.7	8277.0	8427.2	8459.0	8668.3	8841.2	9127.9	9332.7	9514.7	9769.5
12.5°	8131.4	8085.9	8099.5	8186.0	8409.0	8609.2	8813.9	9137.0	9569.3	9642.1	9983.4
15°	8327.1	8281.6	8295.2	8272.5	8486.3	8591.0	8914.0	9319.0	9733.1	9856.0	10220.0
17.5°	8773.0	8777.5	8718.4	8668.3	8618.3	8841.2	9064.2	9428.2	9796.8	10106.2	10379.2
20°	9623.9	9473.7	9355.4	9073.3	8996.0	9091.5	9373.6	9724.0	10056.2	10311.0	10620.4
22.5°	10279.1	10292.8	10124.4	9660.3	9491.9	9532.9	9774.1	10060.7	10424.7	10606.8	10961.7
25°	11230.2	11134.6	10952.6	10584.0	10206.3	10238.2	10415.6	10675.0	10775.1	10902.5	11289.3
27.5°	12099.3	12126.6	11767.1	11421.3	10952.6	10861.6	11180.1	11225.6	11057.2	11298.4	11430.4
30°	12982.0	12959.3	12722.7	12317.7	11858.1	11876.3	12017.4	11794.4	11562.3	11694.3	11785.3
32.5°	13896.6	13637.3	13628.2	13264.1	12913.8	12745.4	12572.5	12681.7	12322.2	12349.5	12263.1
35°	14629.2	14665.6	14456.3	14196.9	14024.0	13728.3	13255.0	13450.7	13382.4	13350.6	12977.5
37.5°	15161.6	15020.6	15125.2	15038.8	14874.9	14506.4	14014.9	14201.5	14233.4	14388.1	13955.8
40°	15598.4	15539.3	15816.9	15862.4	15748.6	14952.3	14069.5	14624.7	15102.5	15439.2	14925.0
42.5°	15807.8	15935.2	16226.4	16576.8	16321.9	15471.0	14351.7	14947.7	16012.5	16544.9	15844.2
45°	16089.9	15926.1	16358.3	16999.9	17004.5	15907.9	14624.7	15384.6	16722.4	17495.9	16472.1
47.5°	15803.2	15885.1	16331.0	17145.5	17354.9	16367.4	15361.8	16003.4	17505.0	18192.1	17054.5
50°	15161.6	15325.4	16139.9	16986.3	17618.8	16854.3	16208.2	16672.3	18228.5	18751.8	17150.1
52.5°	14492.7	14583.7	15857.8	17109.1	17737.1	17482.3	17341.2	17596.0	19111.3	19384.3	17268.4
55°	12672.6	13104.9	14925.0	17054.5	18315.0	18615.3	18506.1	18879.2	20112.3	20385.4	17914.5
56°	11830.8	12058.3	14365.3	16799.7	18428.7	19029.4	18974.8	19143.1	20644.7	20931.4	18014.7
57.5°	10274.6	10292.8	12249.4	15671.2	18001.0	19152.2	19097.6	19229.6	20540.1	20344.4	17136.4
60°	6429.6	6711.7	8336.2	12053.8	15307.2	17768.9	18078.4	17018.1	17318.5	16904.4	13332.4
62.5°	3330.8	3289.9	4368.3	7048.4	10160.8	12722.7	13009.3	12959.3	12495.1	11889.9	8709.3
65°	1660.9	1670.0	2284.3	3490.1	5205.5	6661.6	7462.5	7549.0	6315.8	5810.7	4131.7
67.5°	1205.8	1251.3	1642.7	2134.1	2452.6	2743.8	3362.7	3299.0	2498.1	2375.3	2202.3
70°	937.4	978.3	1333.2	1629.0	1478.8	1478.8	1610.8	1665.4	1779.2	1829.2	1888.4
72.5°	682.5	714.4	1019.3	1123.9	969.2	1042.0	1205.8	1333.2	1451.5	1469.7	1538.0
75°	468.7	496.0	668.9	618.8	582.4	718.9	882.8	1001.1	1087.5	1133.0	1174.0
77.5°	304.9	314.0	382.2	323.1	373.1	464.1	573.3	673.4	759.9	796.3	805.4
80°	136.5	150.2	163.8	204.8	259.4	332.2	409.5	491.4	546.0	559.7	587.0
82.5°	77.4	77.4	100.1	145.6	191.1	241.2	295.8	354.9	418.6	432.3	427.7
85°	41.0	41.0	59.2	86.5	118.3	141.1	136.5	141.1	150.2	172.9	168.4
87.5°	13.7	13.7	18.2	18.2	22.8	27.3	22.8	31.9	41.0	41.0	41.0
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°	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3	9346.3
2.5°	9332.7	9373.6	9319.0	9437.3	9437.3	9414.6	9300.8	9337.2	9364.5	9364.5	9387.3
5°	9510.1	9496.5	9532.9	9391.8	9305.4	9273.5	9087.0	8996.0	8918.6	8914.0	8845.8
7.5°	9610.2	9573.8	9560.2	9455.5	9073.3	8841.2	8440.8	8208.7	8158.7	7981.2	8049.5
10°	9769.5	9837.8	9769.5	9200.7	8668.3	8135.9	7744.6	7385.1	7244.1	7130.3	7062.1
12.5°	10097.1	10065.3	9669.4	8900.4	8154.1	7521.7	6939.2	6561.5	6420.5	6320.4	6311.3
15°	10374.7	10215.4	9610.2	8427.2	7353.3	6679.8	6202.1	5933.6	5869.9	5879.0	5919.9
17.5°	10470.2	10361.0	9300.8	7935.7	6757.2	5965.4	5742.5	5701.5	5760.7	5828.9	5847.1
20°	10620.4	10447.5	9173.4	7266.8	6020.1	5519.5	5505.9	5651.5	5760.7	5860.8	5874.4
22.5°	10934.4	10497.6	8759.3	6634.3	5515.0	5387.6	5519.5	5642.4	5810.7	5892.6	5819.8
25°	11025.4	10388.3	8176.9	5874.4	5196.4	5305.7	5446.7	5615.1	5733.4	5778.9	5810.7
27.5°	11102.7	10220.0	7389.7	5369.4	5096.3	5301.1	5446.7	5587.8	5651.5	5692.4	5728.8
30°	11321.2	10169.9	6707.1	5032.6	5032.6	5210.1	5396.7	5433.1	5519.5	5569.6	5633.3
32.5°	11430.4	9824.1	6006.4	4818.8	4968.9	5255.6	5269.3	5337.5	5342.1	5383.0	5314.8
35°	11717.0	9578.4	5355.7	4664.1	4996.2	5210.1	5278.4	5237.4	5014.4	4905.2	4928.0
37.5°	11926.3	9455.5	4887.0	4645.9	5000.8	5260.2	5296.6	4987.1	4755.1	4573.1	4618.6
40°	12490.6	9150.7	4532.1	4614.0	5041.7	5314.8	5214.6	4877.9	4459.3	4272.7	4240.9
42.5°	12922.9	8932.2	4309.1	4577.6	5073.6	5392.1	5173.7	4659.5	4231.8	4058.9	4104.4
45°	13423.4	8882.2	4190.8	4586.7	5128.2	5433.1	5123.6	4491.2	4036.1	3967.9	3954.2
47.5°	13600.9	8522.7	4063.4	4509.4	5114.5	5419.4	4955.3	4363.7	3963.3	3972.4	4008.8
50°	13305.1	8154.1	3967.9	4350.1	5023.5	5296.6	4691.4	4195.4	3922.4	4036.1	4099.8
52.5°	12927.4	7776.5	3772.2	4136.2	4837.0	5105.4	4568.5	4186.3	3881.4	3845.0	3858.7
55°	13041.2	7467.0	3499.2	3845.0	4536.7	4750.5	4432.0	4099.8	3781.3	3644.8	3690.3
56°	12672.6	7148.5	3321.7	3663.0	4331.9	4523.0	4363.7	4022.5	3699.4	3608.4	3608.4
57.5°	11630.6	6079.2	3089.7	3371.8	3899.6	4127.1	4231.8	3977.0	3608.4	3449.1	3453.7
60°	8577.3	4322.8	2771.1	2971.3	3230.7	3412.7	3899.6	3849.6	3380.9	3271.7	3230.7
62.5°	5287.5	3157.9	2543.6	2621.0	2752.9	2903.1	3403.6	3485.5	3139.7	3021.4	2994.1
65°	2962.2	2416.2	2370.7	2402.6	2466.3	2543.6	2825.7	3007.8	2771.1	2589.1	2580.0
67.5°	2165.9	2161.4	2197.8	2225.1	2252.4	2252.4	2320.7	2393.5	2361.6	2216.0	2202.3
70°	1924.8	1938.4	1965.7	1970.3	1979.4	1947.5	1892.9	1870.2	1906.6	1815.6	1797.4
72.5°	1588.1	1633.6	1665.4	1670.0	1619.9	1579.0	1506.2	1428.8	1401.5	1383.3	1378.7
75°	1219.5	1251.3	1265.0	1260.4	1242.2	1183.1	1096.6	1019.3	969.2	914.6	941.9
77.5°	823.6	869.1	891.9	891.9	864.6	773.6	732.6	673.4	623.4	564.2	573.3
80°	577.9	609.7	646.1	641.6	596.1	550.6	491.4	436.8	395.9	350.4	345.8
82.5°	432.3	450.5	468.7	459.6	427.7	382.2	341.3	291.2	245.7	213.9	213.9
85°	154.7	168.4	204.8	213.9	232.1	232.1	195.7	163.8	132.0	109.2	109.2
87.5°	45.5	45.5	50.1	50.1	45.5	50.1	41.0	45.5	50.1	31.9	31.9
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)