

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: P323633

Luminaire Tested: **GLEON-SA9A-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26164 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

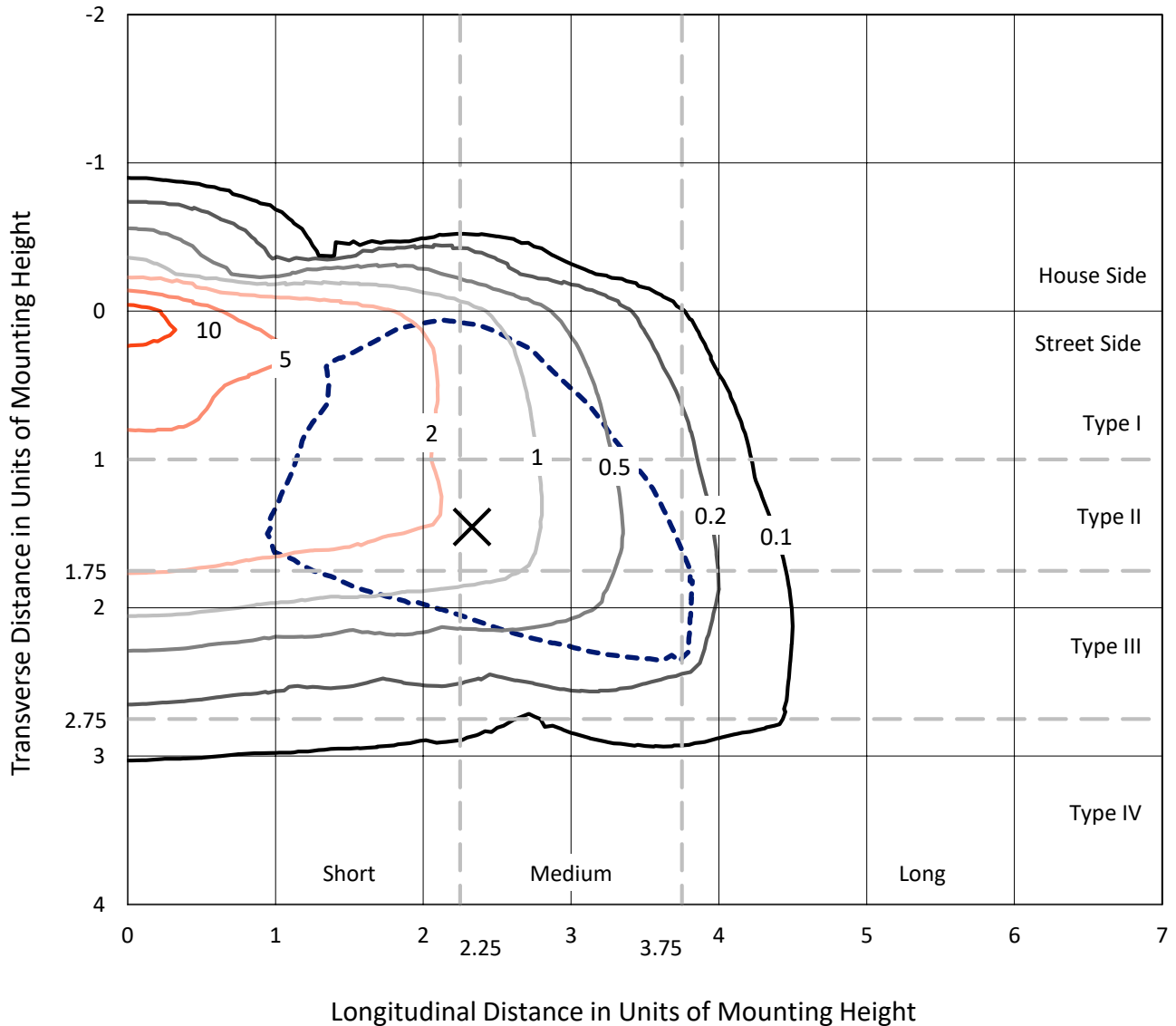
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

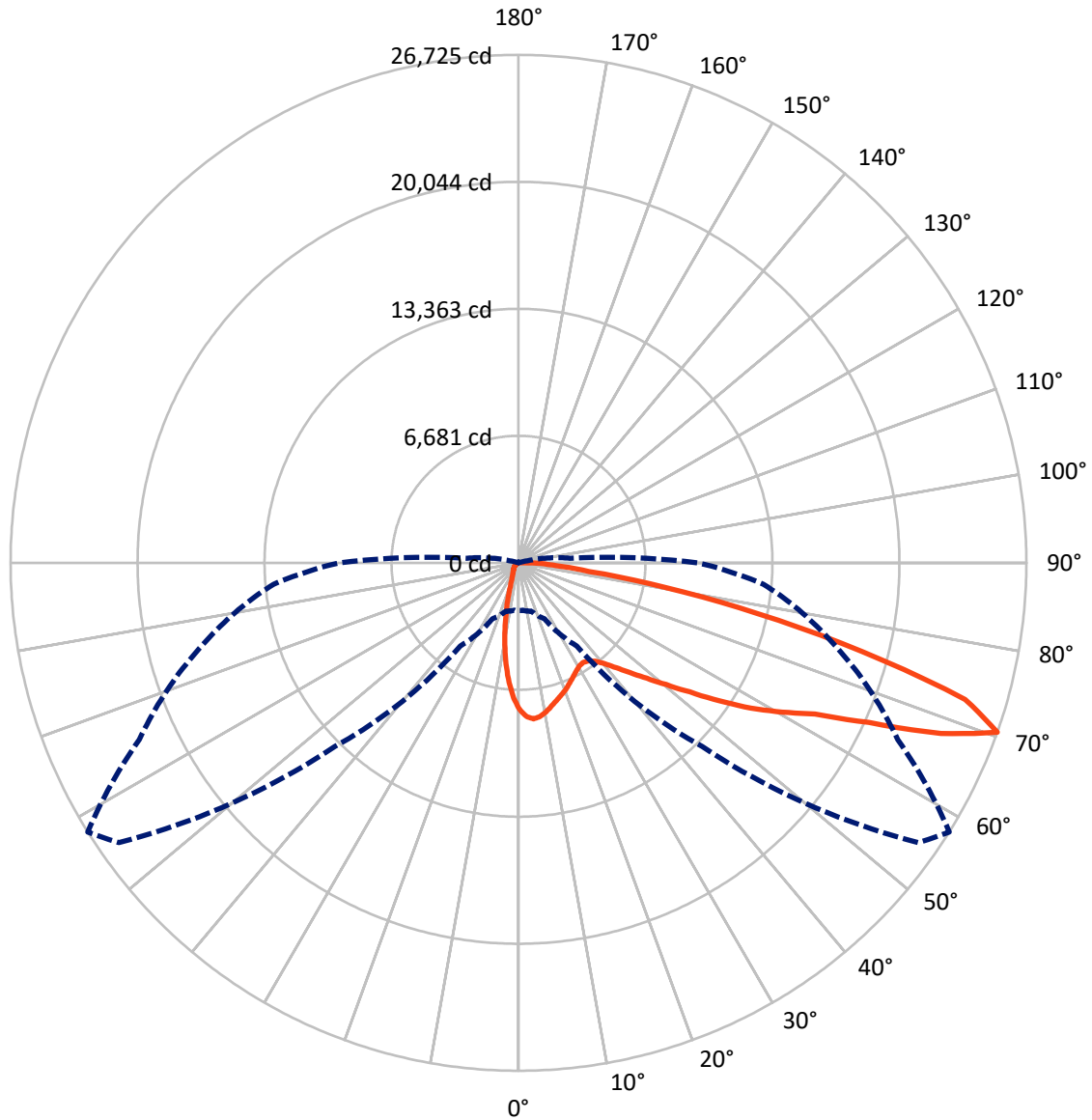
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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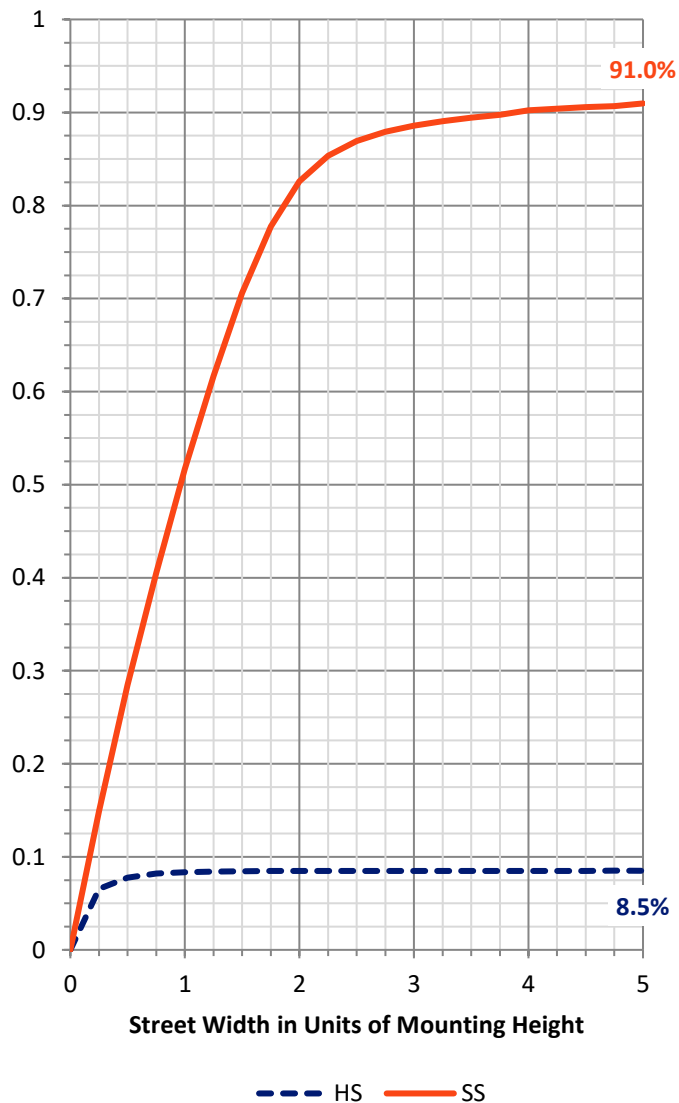
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2239.1	0.0	2239.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23924.9	0.0	23924.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	26164.0	0.0	26164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.0	2.4
10°-20°	1326.4	5.1
20°-30°	1743.8	6.7
30°-40°	2309.5	8.8
40°-50°	3452.0	13.2
50°-60°	5529.9	21.1
60°-70°	6970.4	26.6
70°-80°	3759.8	14.4
80°-90°	440.1	1.7
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°	26164.0	100.0
0°-180°	26164.0	100.0

Coefficient of Utilization

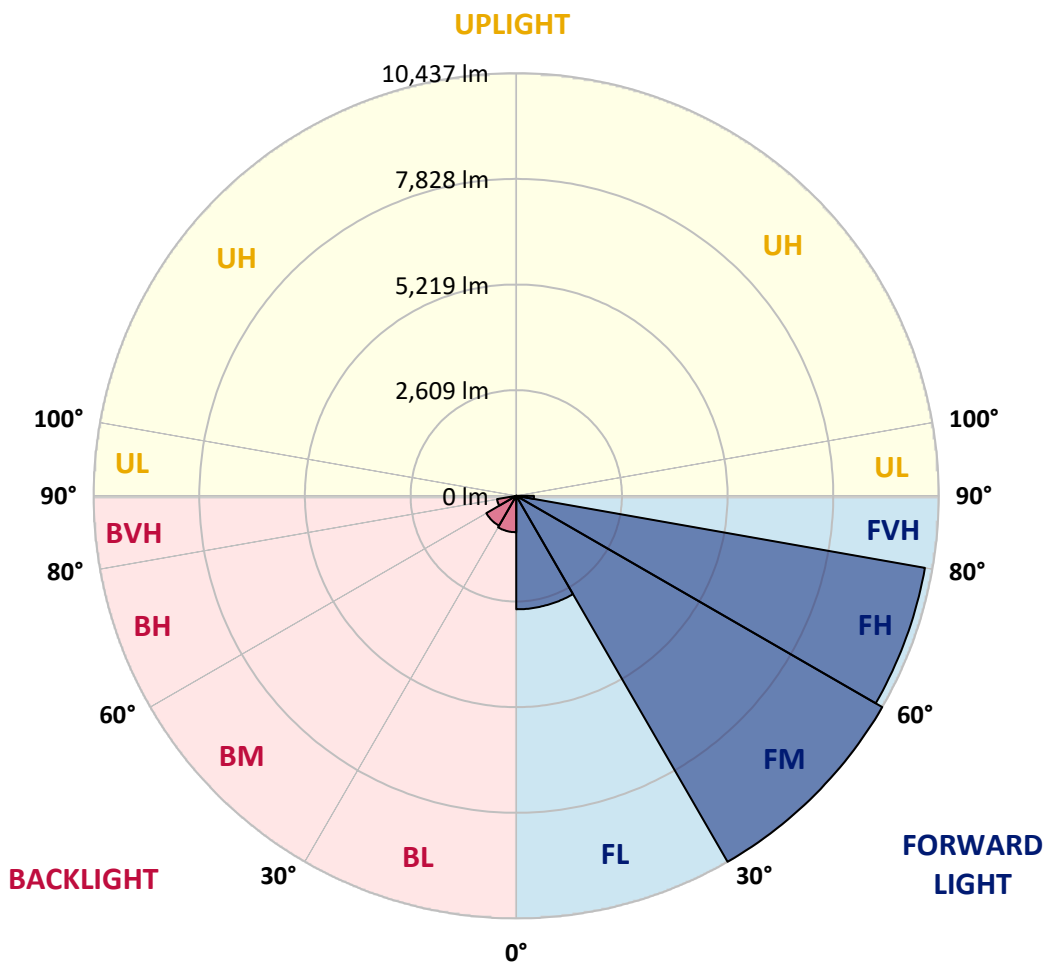


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2802.7	10.7			
FM (30°-60°)	10437.2	39.9			
FH (60°-80°)	10248.7	39.2			G4/12000
FVH (80°-90°)	436.3	1.7			G3/500
BL (0°-30°)	899.6	3.4	B2/1000		
BM (30°-60°)	854.2	3.3	B1/1000		
BH (60°-80°)	481.5	1.8	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7
2.5°	8369.5	8348.8	8341.2	8328.2	8278.1	8229.2	8132.3	8105.1	8044.2	7899.5	7746.1
5°	8376.0	8375.0	8397.8	8392.4	8375.0	8352.1	8282.5	8246.6	8143.2	7936.5	7655.8
7.5°	7972.4	7993.1	8044.2	8085.6	8133.4	8195.4	8204.2	8169.3	8084.5	7861.5	7489.4
10°	7430.6	7463.3	7535.1	7616.7	7741.8	7865.8	7976.8	7972.4	7943.0	7723.3	7289.2
12.5°	6887.7	6925.8	7008.5	7129.3	7306.6	7509.0	7707.0	7734.2	7783.1	7599.3	7104.2
15°	6412.3	6445.0	6526.5	6674.5	6894.3	7166.3	7456.7	7506.8	7633.0	7502.4	6949.8
17.5°	6008.7	6029.4	6089.2	6253.5	6508.1	6837.7	7215.2	7313.1	7501.3	7426.3	6815.9
20°	5726.9	5730.2	5769.3	5884.7	6139.2	6508.1	6965.0	7105.3	7362.1	7361.0	6677.8
22.5°	5587.7	5576.8	5584.4	5650.8	5837.9	6193.6	6714.8	6881.2	7237.0	7305.5	6537.4
25°	5561.5	5552.8	5531.1	5539.8	5652.9	5918.4	6462.4	6654.9	7127.1	7271.8	6415.6
27.5°	5643.1	5651.8	5614.9	5575.7	5584.4	5740.0	6238.2	6461.3	7037.9	7271.8	6329.6
30°	5807.4	5811.8	5784.6	5733.4	5664.9	5689.9	6082.7	6305.7	6993.3	7321.8	6275.2
32.5°	5989.1	6013.0	6009.8	5968.4	5870.5	5769.3	6045.7	6249.1	6990.0	7432.8	6269.8
35°	6214.3	6241.5	6287.2	6278.5	6176.2	6009.8	6171.9	6331.8	7054.2	7615.6	6328.5
37.5°	6453.7	6495.0	6592.9	6639.7	6573.3	6385.1	6454.7	6569.0	7226.1	7911.5	6477.6
40°	6685.4	6732.2	6910.6	7094.5	7044.4	6850.8	6883.4	6974.8	7531.8	8336.9	6760.5
42.5°	6912.8	6982.4	7244.6	7547.0	7606.9	7452.4	7469.8	7542.7	7985.5	8922.2	7222.8
45°	7184.8	7263.1	7651.5	8024.6	8184.6	8117.1	8191.1	8239.0	8578.4	9695.7	7846.2
47.5°	7584.0	7674.3	8150.8	8576.2	8856.9	8900.4	9049.5	9081.0	9328.0	10596.5	8658.9
50°	8363.0	8388.0	8818.8	9205.1	9609.8	9870.9	10040.6	10064.5	10235.3	11581.1	9674.0
52.5°	9343.2	9359.5	9603.2	9862.2	10322.4	10855.5	11252.6	11286.3	11322.2	12540.7	10675.9
55°	10316.9	10314.8	10475.8	10628.1	11154.6	11929.3	12790.9	12811.6	12553.7	13451.3	11441.9
57.5°	10925.1	10983.8	11228.6	11424.5	12159.9	13153.2	14348.8	14425.0	13847.3	14125.8	12199.1
60°	10731.4	10759.7	11302.6	12027.2	13412.1	14892.8	15925.3	15944.8	14819.9	14799.2	13156.5
62.5°	9143.0	9158.3	10011.2	11505.0	14046.4	17149.2	17827.0	17508.2	15938.3	15733.8	14302.1
65°	6266.5	6365.5	7078.1	8924.4	12881.2	18564.6	20770.9	20243.3	17643.1	17080.6	15337.8
67.5°	3690.3	3669.6	4022.1	5382.0	9460.7	17624.6	24495.0	23970.6	19968.0	17982.6	15034.2
70°	2520.8	2506.6	2641.5	3258.4	5340.7	13672.1	25666.7	26725.2	22021.0	17375.5	12938.9
72.5°	1799.5	1807.1	2006.2	2531.6	3353.0	7965.9	22072.1	24577.6	21378.0	15147.4	9835.0
75°	1221.8	1242.4	1527.5	2076.9	2939.6	4052.6	15663.1	18683.2	17408.1	11008.9	5652.9
77.5°	657.1	680.0	1016.1	1673.3	2657.8	2815.6	10075.4	12858.4	10934.9	4949.0	1638.4
80°	274.2	287.2	475.4	1216.3	2296.6	2472.9	5928.2	7797.3	4659.6	975.9	365.5
82.5°	118.6	125.1	198.0	725.7	1716.8	2087.8	3138.7	3751.2	1412.1	214.3	183.9
85°	22.8	23.9	81.6	384.0	1095.6	1178.2	2034.4	1994.2	634.3	92.5	133.8
87.5°	0.0	0.0	19.6	120.8	322.0	641.9	1241.3	1226.1	215.4	44.6	50.0
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°	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7	7728.7
2.5°	7667.8	7592.7	7435.0	7240.2	7091.2	6926.9	6796.4	6631.0	6559.2	6562.5	6523.3
5°	7495.9	7341.4	6992.2	6551.6	6212.1	5861.8	5560.5	5260.2	5082.9	5025.2	4970.8
7.5°	7250.0	7005.2	6448.2	5769.3	5194.9	4633.5	4145.0	3715.3	3443.3	3310.6	3261.6
10°	6972.6	6628.8	5822.7	4928.4	4108.1	3348.7	2715.5	2165.0	1945.2	1796.2	1758.1
12.5°	6728.9	6263.3	5211.2	4065.6	3091.9	2175.9	1572.1	1229.4	1080.3	1021.6	1011.8
15°	6499.4	5921.7	4622.7	3284.5	2141.1	1339.3	999.8	883.4	848.6	838.8	838.8
17.5°	6282.9	5596.4	4047.1	2515.3	1416.5	938.9	827.9	801.8	790.9	789.8	790.9
20°	6056.6	5271.1	3481.4	1843.0	988.9	795.3	764.8	750.7	747.4	747.4	747.4
22.5°	5840.1	4945.8	2930.9	1316.4	793.1	725.7	710.4	700.6	697.4	696.3	694.1
25°	5632.3	4636.8	2393.5	930.2	696.3	664.7	651.7	638.6	628.8	623.4	620.1
27.5°	5461.5	4361.5	1893.0	746.3	628.8	601.6	585.3	565.7	541.8	530.9	526.6
30°	5325.5	4110.2	1458.9	629.9	565.7	538.5	513.5	479.8	445.0	426.5	425.4
32.5°	5218.8	3863.3	1107.5	557.0	509.2	475.4	439.5	397.1	356.8	336.2	335.1
35°	5166.6	3645.7	846.4	503.7	459.1	416.7	372.1	325.3	286.1	266.5	264.4
37.5°	5201.4	3461.8	660.4	459.1	416.7	367.7	315.5	266.5	231.7	214.3	213.2
40°	5328.7	3344.3	536.4	421.0	380.8	320.9	264.4	218.7	189.3	175.2	174.1
42.5°	5599.6	3300.8	458.0	389.5	346.0	277.4	219.8	180.6	153.4	143.6	141.4
45°	6052.2	3365.0	404.7	359.0	310.1	236.1	181.7	148.0	124.0	116.4	115.3
47.5°	6654.9	3533.6	366.6	329.6	277.4	199.1	151.2	119.7	101.2	93.6	92.5
50°	7431.7	3801.3	335.1	300.3	247.0	168.6	125.1	94.7	78.3	72.9	72.9
52.5°	8277.0	4120.0	306.8	273.1	216.5	140.3	101.2	72.9	62.0	55.5	55.5
55°	8975.5	4398.5	276.3	252.4	179.5	116.4	77.2	55.5	45.7	42.4	42.4
57.5°	9672.9	4695.5	241.5	216.5	143.6	94.7	58.7	41.3	33.7	31.6	31.6
60°	10576.9	5058.9	207.8	176.2	113.1	71.8	43.5	29.4	25.0	23.9	23.9
62.5°	11571.3	5272.2	177.3	141.4	88.1	53.3	31.6	19.6	18.5	18.5	17.4
65°	12179.5	4970.8	149.0	113.1	68.5	40.3	20.7	14.1	16.3	15.2	13.1
67.5°	11403.8	3891.6	121.8	88.1	53.3	30.5	13.1	9.8	17.4	14.1	10.9
70°	9442.2	2724.2	94.7	62.0	42.4	26.1	8.7	6.5	18.5	14.1	8.7
72.5°	7066.2	1823.4	75.1	41.3	31.6	22.8	7.6	3.3	16.3	12.0	7.6
75°	3861.1	734.4	59.8	26.1	19.6	16.3	5.4	2.2	10.9	8.7	5.4
77.5°	1016.1	193.7	43.5	17.4	10.9	6.5	3.3	1.1	5.4	4.4	2.2
80°	258.9	75.1	28.3	12.0	7.6	3.3	0.0	0.0	1.1	0.0	0.0
82.5°	138.2	31.6	17.4	8.7	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	104.4	20.7	9.8	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.3	6.5	3.3	0.0	0.0	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)