

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: P323973

Luminaire Tested: **GLEON-SA9C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37726 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

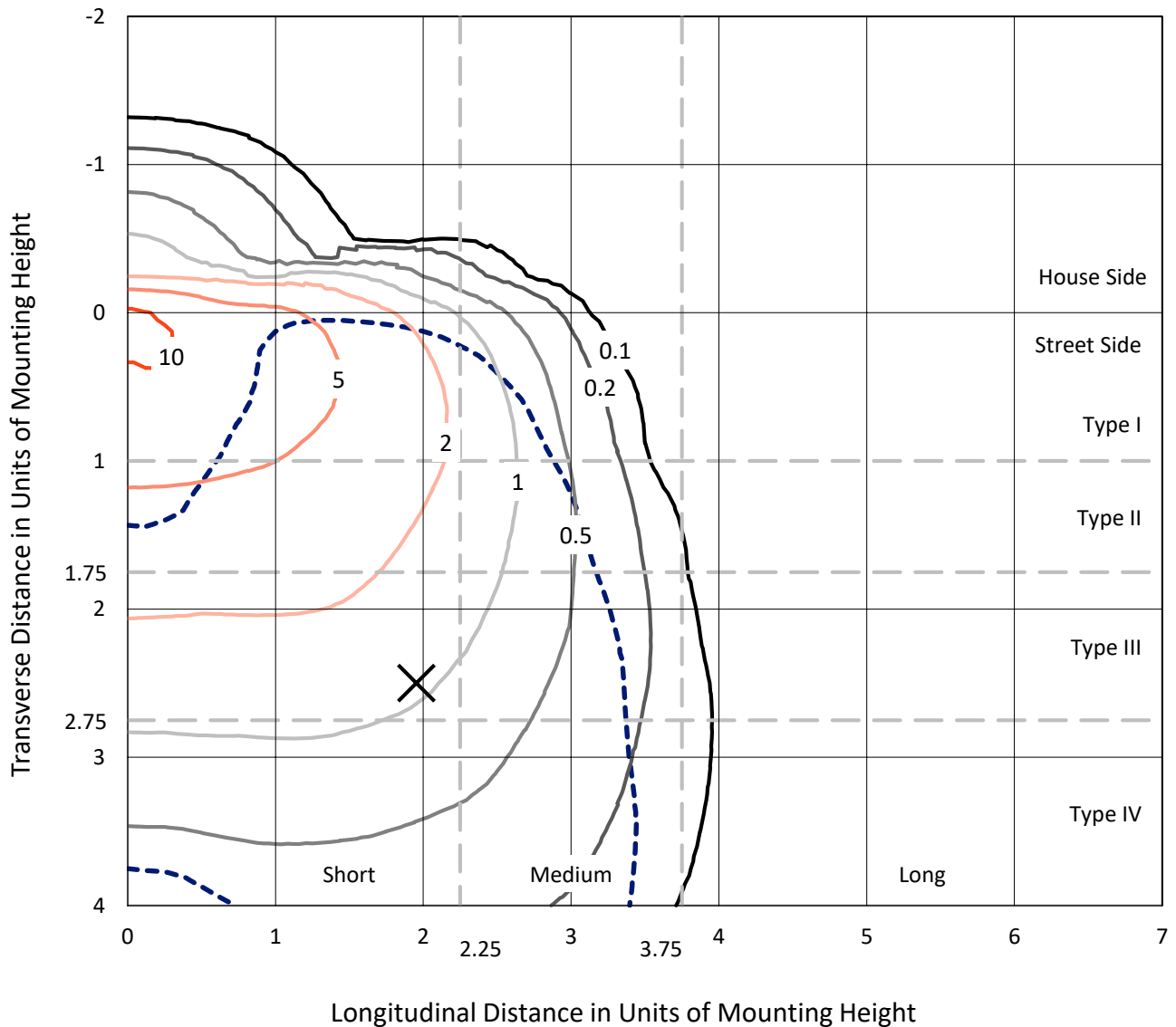
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

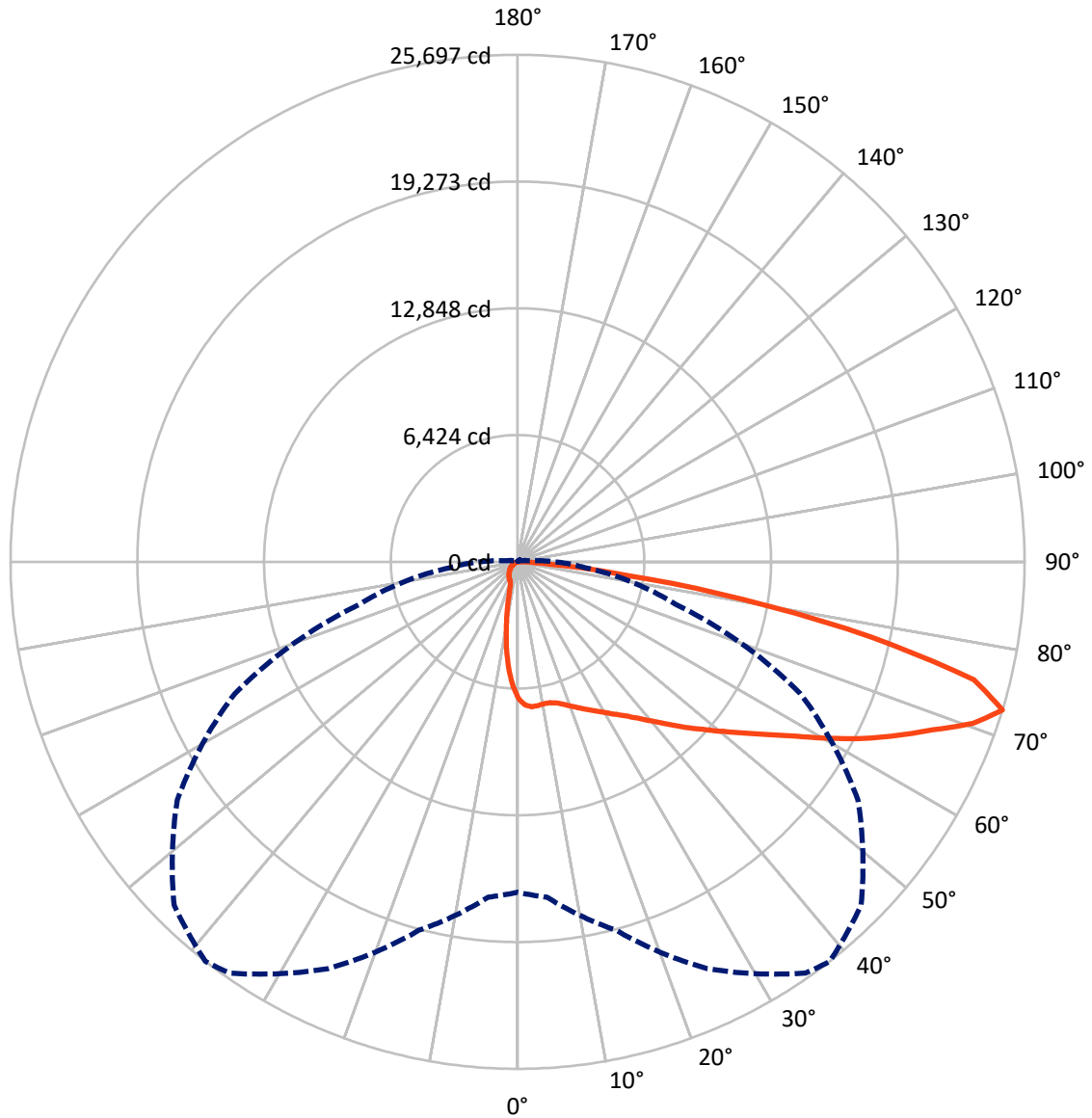
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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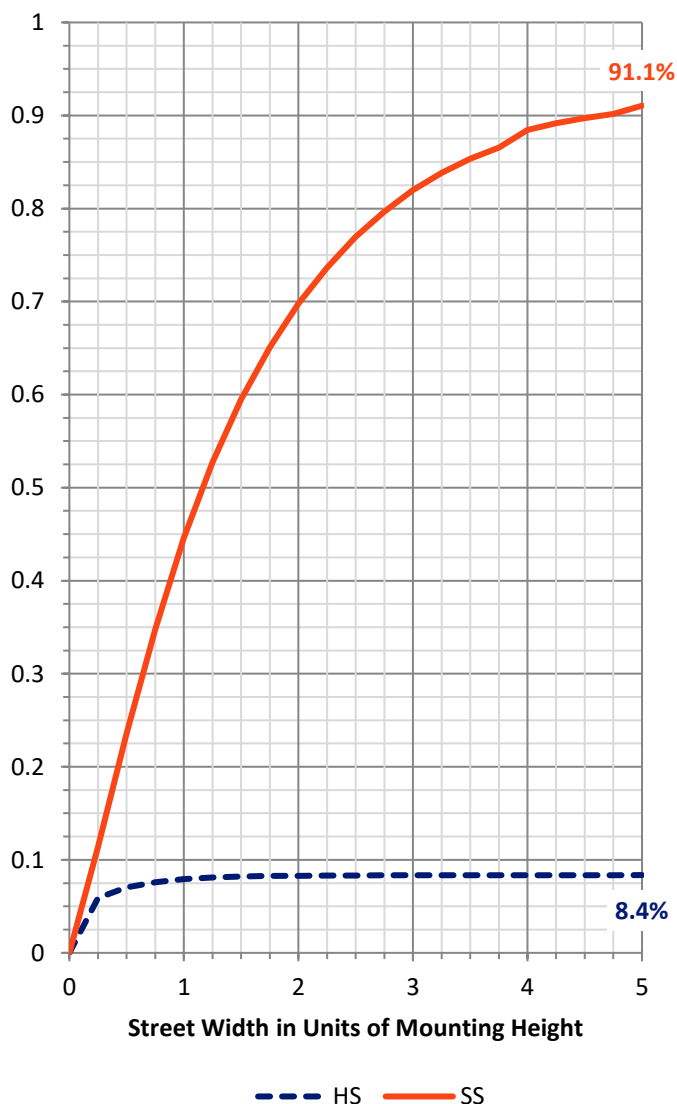
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3174.8	0.0	3174.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34551.2	0.0	34551.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	37726.0	0.0	37726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.2	1.6
10°-20°	1445.7	3.8
20°-30°	2299.3	6.1
30°-40°	3456.8	9.2
40°-50°	5273.6	14.0
50°-60°	7453.3	19.8
60°-70°	9349.0	24.8
70°-80°	6990.4	18.5
80°-90°	866.8	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°	37726.0	100.0
0°-180°	37726.0	100.0

Coefficient of Utilization



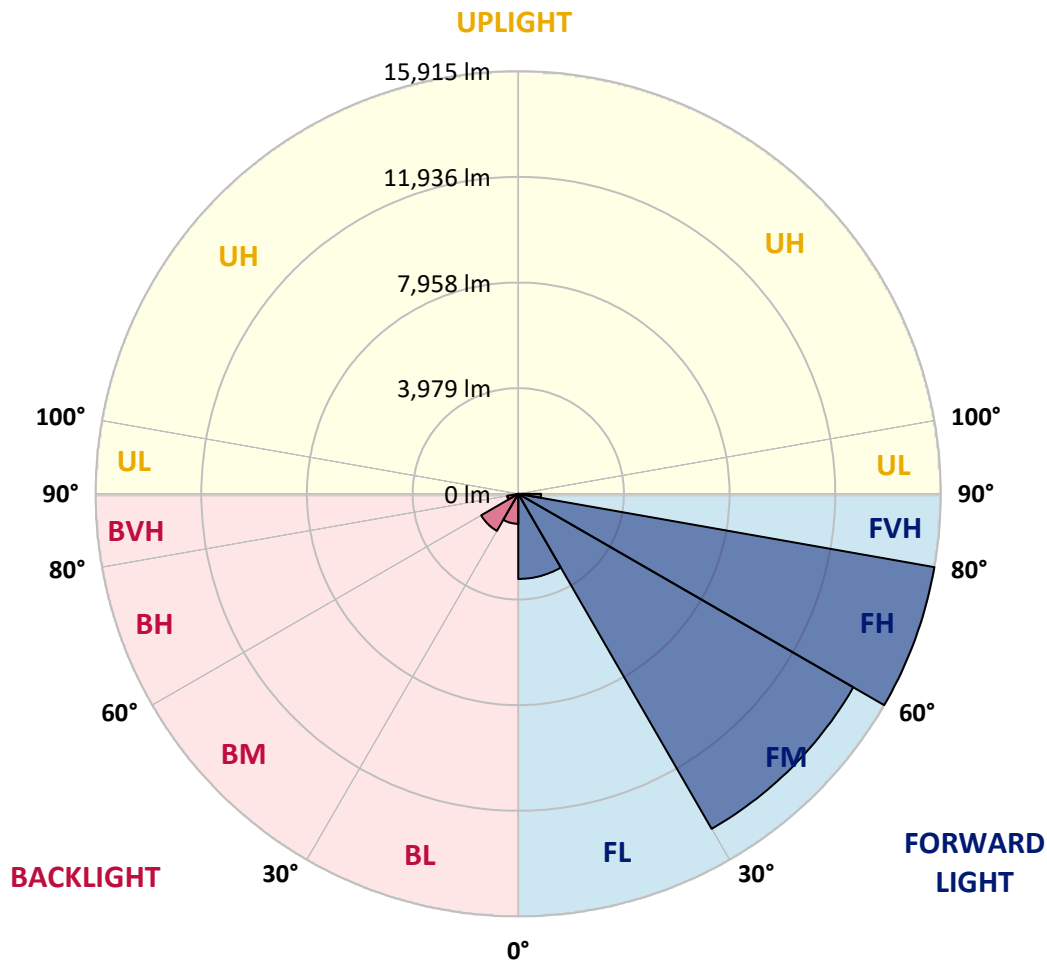
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3205.8	8.5			
FM (30°-60°)	14571.4	38.6			
FH (60°-80°)	15915.3	42.2			G5
FVH (80°-90°)	858.7	2.3			G5
BL (0°-30°)	1130.4	3.0	B3/2500		
BM (30°-60°)	1612.2	4.3	B2/2500		
BH (60°-80°)	424.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7
2.5°	7363.9	7365.4	7348.2	7320.0	7283.9	7265.1	7233.8	7183.7	7130.4	7034.8	6931.4
5°	7514.3	7514.3	7492.3	7454.7	7396.8	7379.5	7320.0	7240.1	7130.4	6975.3	6801.4
7.5°	7498.6	7501.7	7472.0	7432.8	7374.8	7359.1	7287.1	7197.8	7061.5	6873.4	6651.0
10°	7417.1	7425.0	7401.5	7382.7	7329.4	7312.1	7244.8	7155.5	7019.2	6818.6	6563.2
12.5°	7334.1	7341.9	7349.7	7367.0	7334.1	7327.8	7274.5	7199.3	7069.3	6860.9	6572.6
15°	7280.8	7296.5	7352.9	7420.3	7428.1	7421.8	7387.4	7316.8	7185.2	6969.0	6640.0
17.5°	7280.8	7305.9	7423.4	7551.9	7597.3	7602.0	7572.2	7473.5	7316.8	7085.0	6702.7
20°	7341.9	7376.4	7559.7	7741.4	7816.6	7816.6	7758.7	7620.8	7437.5	7189.9	6745.0
22.5°	7498.6	7544.0	7774.3	7984.3	8064.2	8047.0	7968.6	7768.1	7562.8	7309.0	6798.2
25°	7807.2	7841.7	8081.4	8292.9	8341.5	8302.3	8203.6	7946.7	7722.6	7470.4	6895.4
27.5°	8205.2	8209.9	8457.5	8636.1	8606.3	8579.7	8455.9	8170.7	7953.0	7700.7	7063.0
30°	8642.3	8642.3	8860.1	8996.4	8905.6	8883.6	8759.8	8441.8	8247.5	8014.1	7301.2
32.5°	9065.4	9084.2	9261.2	9347.4	9245.5	9223.6	9103.0	8784.9	8639.2	8491.9	7672.5
35°	9474.3	9488.4	9656.0	9703.0	9605.9	9612.2	9526.0	9256.5	9201.7	9182.9	8231.8
37.5°	9870.7	9873.8	10044.6	10074.4	10025.8	10079.1	10086.9	9848.8	9950.6	10102.6	9019.9
40°	10232.6	10235.8	10405.0	10481.7	10564.8	10633.7	10694.8	10567.9	10904.8	11257.3	9958.4
42.5°	10522.5	10555.4	10770.0	10915.7	11135.1	11266.7	11432.8	11426.5	12040.7	12570.2	11092.8
45°	10777.9	10834.3	11133.5	11388.9	11764.9	11974.9	12235.0	12438.6	13319.2	14032.1	12241.2
47.5°	11114.7	11168.0	11509.5	11927.9	12429.2	12705.0	13135.9	13576.1	14724.6	15467.2	13363.0
50°	11589.4	11565.9	11902.8	12502.9	13146.8	13508.7	14122.9	14782.5	16119.0	16717.5	14022.7
52.5°	12095.5	12086.1	12335.2	13128.0	13992.9	14415.9	15227.5	16029.7	17452.3	17579.2	14325.0
55°	12722.2	12654.9	12864.8	13840.9	14997.2	15451.6	16407.3	17264.3	18514.6	18064.9	14477.0
57.5°	13378.7	13267.5	13468.0	14635.3	16130.0	16667.4	17714.0	18467.6	19221.2	18397.1	14475.4
60°	14057.1	13925.5	14163.7	15628.6	17536.9	18158.9	19130.3	19280.8	19880.8	18564.7	14368.9
62.5°	14624.3	14546.0	14900.0	16690.9	19108.4	19719.5	20200.5	20020.3	20437.0	18694.8	14119.8
65°	15224.4	15229.1	15800.9	17930.2	20778.6	21190.7	21231.4	20979.1	20902.4	18668.1	13276.9
67.5°	16036.0	16111.2	17065.3	19612.9	22403.3	22721.4	22718.3	22017.9	21242.4	17609.0	11407.7
70°	16894.6	17071.6	18522.4	21538.5	24176.9	24499.7	24333.6	22679.1	20001.5	14238.9	8073.6
72.5°	16750.4	17057.5	19332.5	22752.7	25450.7	25696.7	24617.2	21054.3	15808.8	8275.7	3437.5
75°	12922.8	13278.4	17726.5	21549.4	24114.3	23893.3	21151.5	16383.8	8639.2	2309.4	774.0
77.5°	6826.4	7016.0	11710.1	16416.7	18802.9	18340.7	14900.0	9088.9	2633.8	571.9	347.8
80°	3575.4	3619.3	5103.0	9314.5	11605.1	11608.2	8830.4	3992.1	1085.8	293.0	233.4
82.5°	1914.6	1952.2	2696.4	4303.9	6080.7	5511.9	3381.1	2196.6	631.4	166.1	224.0
85°	460.6	468.5	1529.2	1966.3	2390.9	1707.8	1004.3	1844.1	170.8	97.1	181.7
87.5°	177.0	180.2	567.2	850.8	609.5	394.8	470.0	687.8	21.9	37.6	28.2
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°	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7	6937.7
2.5°	6868.7	6828.0	6727.7	6600.8	6488.0	6406.5	6284.3	6204.4	6151.2	6149.6	6129.2
5°	6694.8	6611.8	6395.6	6138.6	5905.2	5695.2	5447.7	5251.8	5106.1	5082.6	5032.5
7.5°	6508.4	6372.1	6039.9	5638.8	5247.1	4849.2	4387.0	4100.3	3854.3	3736.8	3724.2
10°	6394.0	6202.9	5731.3	5151.6	4537.4	3890.3	3285.5	2867.2	2564.8	2478.6	2414.4
12.5°	6370.5	6118.3	5493.1	4694.1	3816.7	2961.2	2292.2	1847.2	1605.9	1529.2	1508.8
15°	6394.0	6079.1	5292.6	4241.3	3086.6	2101.0	1538.6	1280.1	1189.2	1167.2	1165.7
17.5°	6408.1	6032.1	5065.4	3738.3	2378.4	1501.0	1178.2	1103.0	1088.9	1087.3	1090.5
20°	6406.5	5960.0	4794.3	3177.4	1768.9	1179.8	1065.4	1049.7	1046.6	1048.2	1046.6
22.5°	6395.6	5875.4	4496.6	2599.3	1336.5	1054.4	1016.8	1007.4	1005.9	1005.9	1005.9
25°	6416.0	5808.0	4169.2	2046.2	1101.4	996.5	973.0	965.1	963.6	963.6	960.4
27.5°	6489.6	5770.4	3810.4	1574.6	994.9	944.8	926.0	924.4	919.7	918.1	921.3
30°	6608.7	5770.4	3417.1	1225.2	930.7	891.5	877.4	874.3	872.7	871.1	872.7
32.5°	6818.6	5814.3	2987.8	1018.4	869.6	832.0	822.6	827.3	822.6	822.6	822.6
35°	7197.8	5945.9	2538.2	888.4	805.3	774.0	764.6	770.9	767.7	767.7	766.2
37.5°	7750.8	6190.3	2085.4	810.0	748.9	716.0	703.5	712.9	709.7	709.7	708.2
40°	8424.6	6546.0	1654.5	750.5	694.1	659.6	648.6	653.3	645.5	645.5	648.6
42.5°	9256.5	6997.2	1278.5	692.5	639.2	606.3	600.1	595.4	581.3	573.4	575.0
45°	10180.9	7467.3	996.5	636.1	587.5	560.9	551.5	539.0	515.5	499.8	501.4
47.5°	11006.6	7829.2	810.0	581.3	540.5	520.2	506.1	482.6	448.1	429.3	430.9
50°	11440.6	7884.0	689.4	526.4	496.7	476.3	455.9	419.9	379.2	358.8	357.2
52.5°	11551.8	7627.1	600.1	476.3	452.8	429.3	402.7	354.1	308.7	286.7	283.6
55°	11592.6	7235.4	520.2	429.3	405.8	379.2	344.7	289.9	247.6	225.6	224.0
57.5°	11457.8	6651.0	457.5	387.0	358.8	325.9	283.6	231.9	191.1	173.9	173.9
60°	11158.6	5859.7	408.9	341.6	310.2	272.6	228.7	180.2	142.6	128.5	128.5
62.5°	10561.6	4835.1	363.5	294.6	264.8	225.6	184.9	136.3	100.3	92.4	94.0
65°	9435.1	3667.8	318.1	252.3	225.6	186.4	144.1	97.1	67.4	67.4	70.5
67.5°	7694.4	2547.6	271.1	214.6	194.3	152.0	109.7	67.4	47.0	53.3	59.5
70°	5093.6	1428.9	231.9	177.0	166.1	120.6	81.5	45.4	37.6	50.1	61.1
72.5°	1922.4	556.2	194.3	142.6	144.1	92.4	58.0	34.5	34.5	54.8	72.1
75°	535.8	272.6	139.4	105.0	112.8	67.4	42.3	29.8	32.9	62.7	84.6
77.5°	314.9	200.5	90.9	61.1	76.8	47.0	28.2	23.5	28.2	53.3	81.5
80°	253.8	106.5	53.3	31.3	42.3	26.6	18.8	14.1	7.8	20.4	42.3
82.5°	253.8	64.2	25.1	21.9	21.9	14.1	9.4	6.3	1.6	0.0	11.0
85°	170.8	26.6	15.7	14.1	11.0	4.7	3.1	1.6	0.0	0.0	0.0
87.5°	28.2	11.0	6.3	3.1	1.6	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)