

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: P647599

Luminaire Tested: **GALN-SA8D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28548.9 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

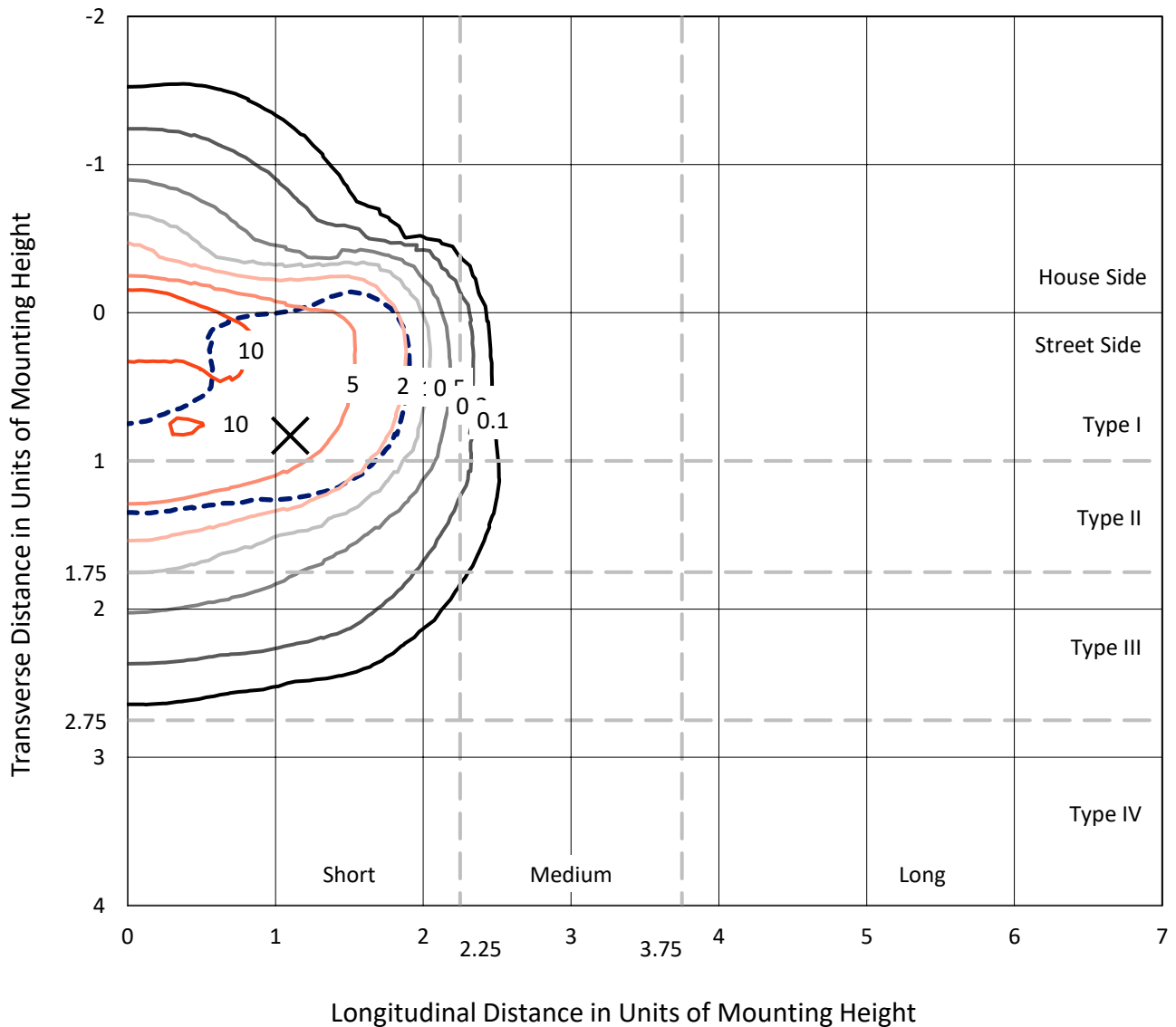
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

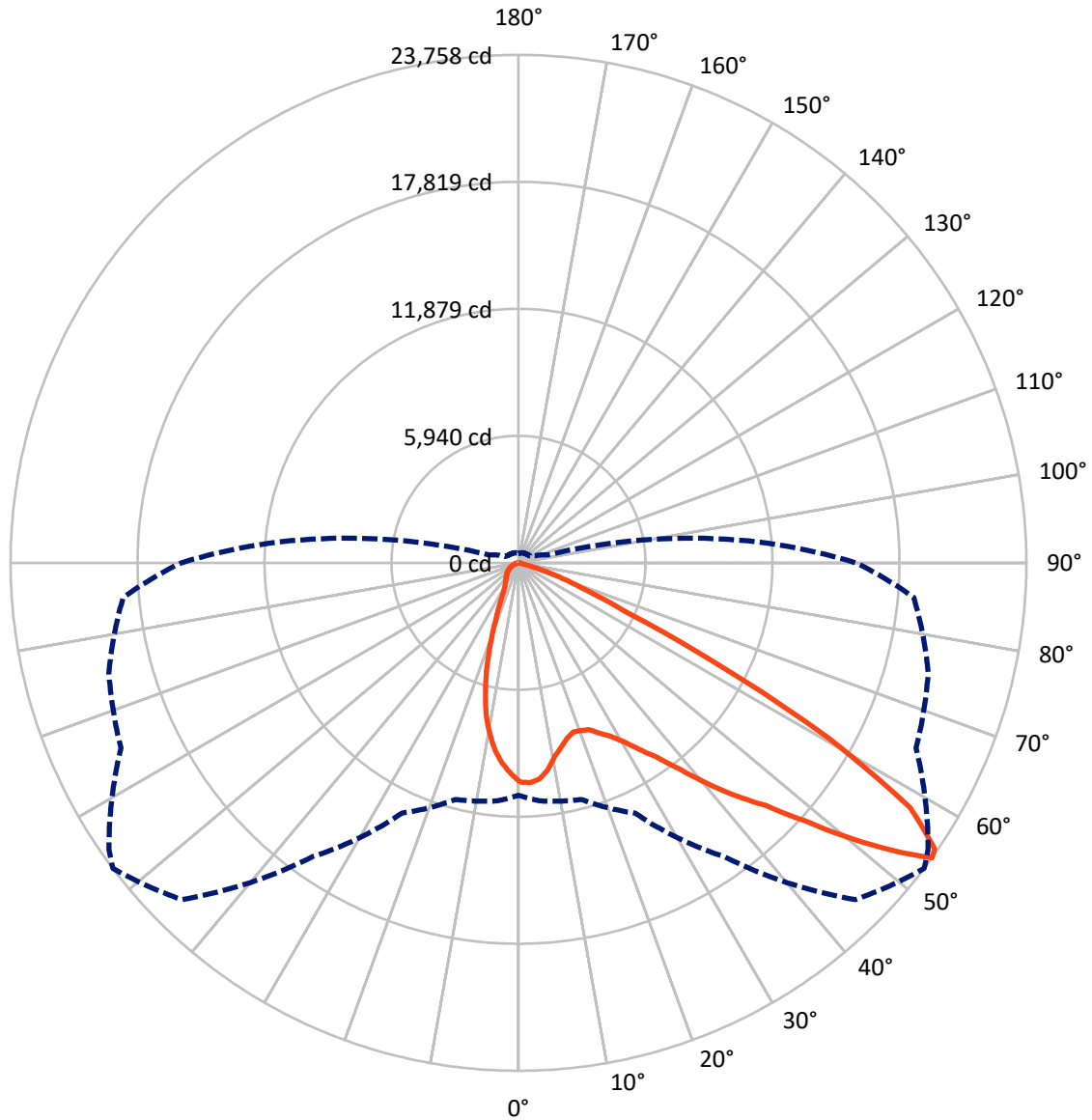
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical



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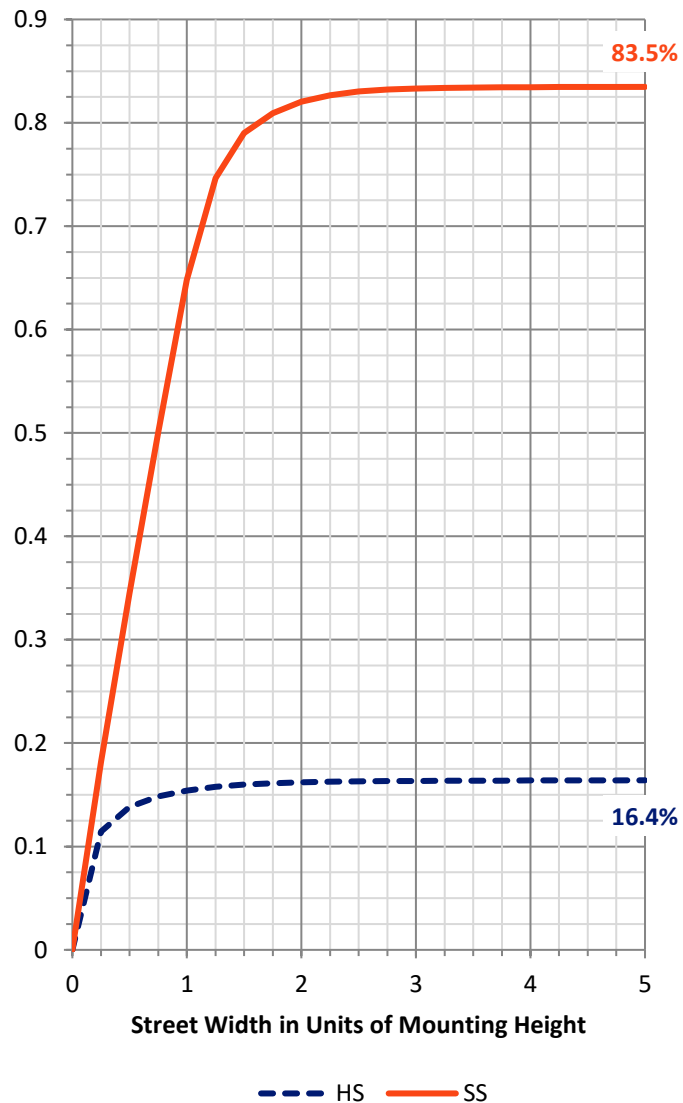
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4723.5	0.0	4723.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	23825.5	0.0	23825.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	28548.9	0.0	28548.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	879.8	3.1
10°-20°	2017.1	7.1
20°-30°	2866.7	10.0
30°-40°	4424.1	15.5
40°-50°	6936.6	24.3
50°-60°	8057.8	28.2
60°-70°	3044.7	10.7
70°-80°	289.5	1.0
80°-90°	32.6	0.1
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°	28548.9	100.0
0°-180°	28548.9	100.0

Coefficient of Utilization



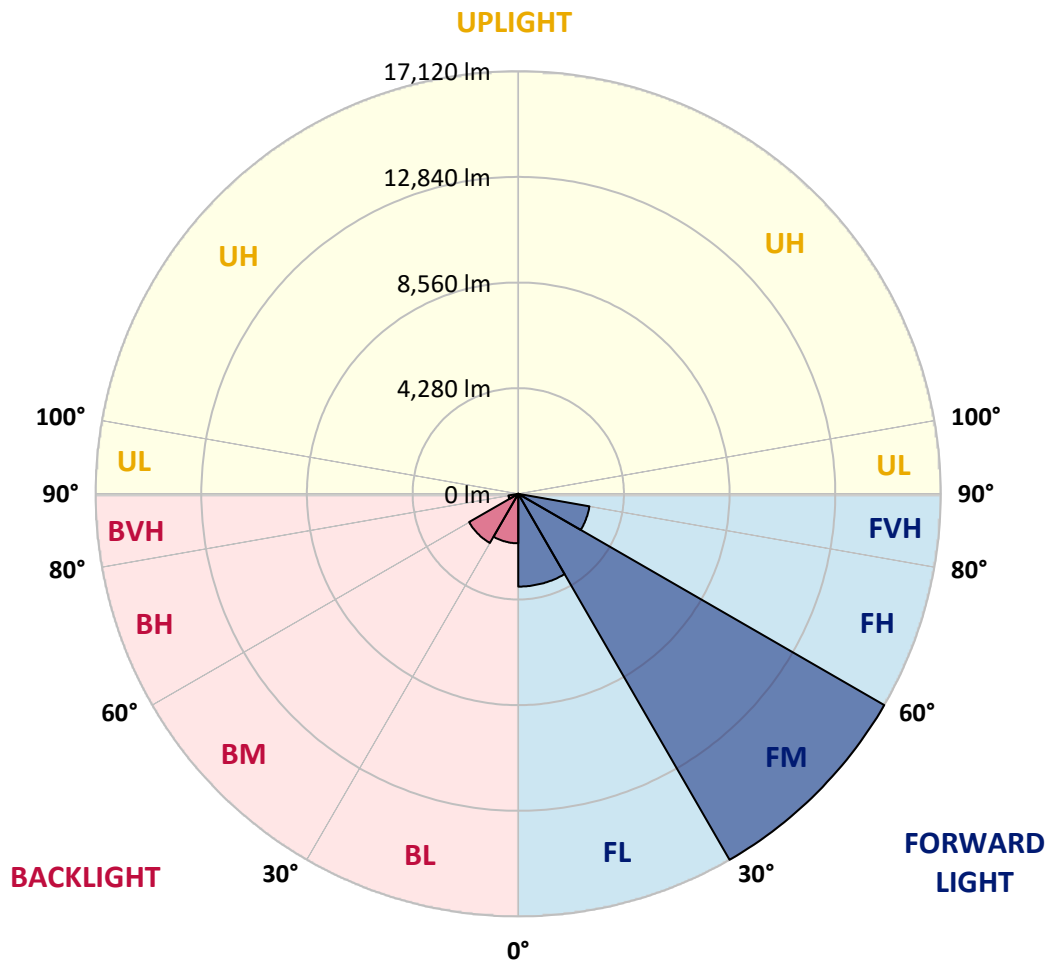
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3759.2	13.2			
FM (30°-60°)	17119.9	60.0			
FH (60°-80°)	2929.6	10.3			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	2004.5	7.0	B3/2500		
BM (30°-60°)	2298.6	8.1	B2/2500		
BH (60°-80°)	404.7	1.4	B1/500		G1/500
BVH (80°-90°)	15.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3
2.5°	10201.2	10110.7	10201.2	10211.7	10275.5	10334.1	10296.8	10382.0	10334.1	10280.9	10265.0
5°	9376.7	9499.0	9504.4	9695.9	9653.3	10004.3	10158.6	10116.0	10376.6	10360.7	10323.5
7.5°	8637.4	8589.6	8653.4	8876.8	9158.7	9562.9	9786.2	9780.9	10153.2	10419.1	10392.6
10°	7951.4	7946.0	8079.0	8254.5	8493.8	8919.3	9227.8	9382.1	9961.8	10366.0	10424.5
12.5°	7488.6	7467.3	7610.9	7754.5	8132.2	8462.0	8855.5	8930.0	9594.8	10179.9	10275.5
15°	7185.4	7233.4	7244.0	7520.6	7759.8	8196.0	8504.5	8658.7	9424.6	10030.9	10397.9
17.5°	7132.3	7196.1	7201.4	7430.1	7685.4	8052.4	8323.7	8531.1	9281.0	10105.4	10403.3
20°	7238.7	7201.4	7233.4	7377.0	7626.9	7977.9	8371.5	8440.7	9233.1	10142.6	10461.7
22.5°	7541.8	7531.2	7451.4	7568.4	7743.9	8110.9	8483.2	8589.6	9371.4	10334.1	10509.6
25°	7876.9	7935.4	7860.9	7845.0	7967.3	8328.9	8823.6	8961.9	9834.2	10679.8	10658.5
27.5°	8504.5	8446.0	8446.0	8371.5	8339.6	8515.1	9190.6	9419.3	10350.0	11126.6	10828.7
30°	9105.5	9169.3	9121.4	9148.0	8935.3	8919.3	9711.8	9993.7	11264.9	11807.3	11190.4
32.5°	10057.5	9972.4	10052.2	9983.1	9701.1	9413.9	10419.1	10711.7	12371.1	12589.2	11732.9
35°	10850.0	10812.8	11153.1	11142.5	10685.1	10403.3	11169.1	11605.2	13142.3	13525.2	12371.1
37.5°	11977.6	11908.4	12296.6	12482.8	12073.3	11653.1	12243.5	12748.7	13860.4	14275.2	13025.3
40°	13137.0	13312.5	13833.7	14142.2	13706.1	13147.7	13557.2	13711.4	14339.0	14764.5	13472.1
42.5°	14604.9	14860.2	15392.1	15658.0	15620.8	15014.5	14892.1	14886.9	14684.7	14626.2	13801.9
45°	16014.4	15918.6	16737.7	17317.5	17785.5	17610.0	16179.3	16019.7	15232.6	14833.6	13886.9
47.5°	16631.3	16599.4	17157.9	18189.7	19785.3	20003.4	18051.4	17434.4	16158.0	15705.9	14349.6
50°	15833.5	15998.4	16551.5	17695.1	20141.7	21806.4	20349.1	19519.3	17237.7	16769.6	15445.3
52.5°	13227.5	13339.1	13865.7	15317.7	18928.9	22870.1	22550.9	22072.3	19221.5	18445.0	17354.6
54°	10876.6	11174.4	11461.6	12919.0	16769.6	22279.7	23758.3	23391.3	20513.9	19838.5	18556.7
55°	9472.5	9648.0	9855.4	11307.4	15275.1	21279.8	23620.0	23651.9	21380.8	20274.6	19365.1
57.5°	6919.5	7041.8	6829.1	7472.6	10488.4	17280.2	21604.2	22465.8	22550.9	20928.8	19859.8
60°	5286.7	5339.9	5100.5	5201.6	6520.7	11860.5	16711.1	17748.3	20343.7	18290.7	16822.8
62.5°	4100.6	4111.3	4106.0	4281.5	4494.3	6978.0	10451.1	11371.2	14025.2	12988.1	11424.4
65°	3021.0	2973.1	3058.2	3590.1	3834.7	4387.9	5504.8	6174.9	7621.6	6435.6	4600.6
67.5°	1957.3	1973.2	2058.3	2670.0	3286.9	3366.7	3388.0	3334.8	3340.1	1840.2	1154.1
70°	1175.4	1202.0	1175.4	1510.5	2350.8	2414.7	2207.2	2154.0	1680.7	436.1	430.8
72.5°	696.7	659.5	590.4	648.9	978.6	1170.1	1053.1	1047.7	659.5	255.3	255.3
75°	292.5	265.9	218.1	196.8	260.6	250.0	250.0	223.4	175.5	170.2	159.6
77.5°	58.5	58.5	42.5	47.8	63.8	74.5	90.4	90.4	106.4	106.4	101.1
80°	0.0	5.3	16.0	31.9	47.8	69.1	79.8	79.8	90.4	90.4	74.5
82.5°	0.0	5.3	16.0	31.9	42.5	63.8	79.8	79.8	90.4	95.8	79.8
85°	0.0	5.3	16.0	26.6	42.5	53.2	53.2	47.8	37.2	31.9	21.3
87.5°	0.0	0.0	5.3	10.6	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3	10254.3
2.5°	10302.2	10296.8	10169.2	9961.8	9913.9	9738.4	9717.1	9610.8	9669.3	9472.5	9451.2
5°	10217.1	10153.2	9999.0	9866.0	9477.8	9201.2	8983.1	8717.2	8563.0	8589.6	8488.5
7.5°	10339.4	10174.5	9903.3	9440.6	8967.2	8483.2	8222.6	7680.1	7483.3	7190.8	7148.2
10°	10211.7	10089.4	9669.3	8903.4	8249.2	7552.4	6940.8	6339.8	5882.4	5685.6	5643.1
12.5°	10201.2	9988.3	9286.3	8435.3	7488.6	6488.7	5600.5	4850.6	4398.5	4143.2	4084.7
15°	10036.3	9780.9	8855.5	7712.0	6403.6	5159.0	4191.1	3467.8	3122.1	2973.1	3015.6
17.5°	10052.2	9669.3	8424.7	6946.1	5334.6	3786.8	2861.4	2489.1	2398.7	2435.9	2435.9
20°	10036.3	9419.3	7903.4	6063.2	4084.7	2627.4	2100.9	1967.9	2026.4	2143.4	2116.8
22.5°	9951.1	9302.3	7424.8	5132.5	3005.0	1946.6	1686.0	1691.4	1781.7	1925.3	1957.3
25°	10015.0	9041.7	6818.4	4191.1	2191.3	1553.0	1462.6	1499.8	1595.6	1701.9	1723.2
27.5°	9967.1	8855.5	6185.5	3255.0	1600.9	1334.9	1329.7	1372.2	1414.7	1494.5	1494.5
30°	10020.3	8685.3	5563.3	2419.9	1319.0	1223.3	1202.0	1233.9	1276.4	1292.4	1287.1
32.5°	10217.1	8557.6	4845.3	1808.3	1164.8	1116.9	1116.9	1116.9	1111.6	1132.8	1138.2
35°	10647.9	8578.9	4212.4	1398.8	1063.7	1026.5	1010.5	989.2	978.6	989.2	994.6
37.5°	11115.9	8568.3	3558.2	1191.3	989.2	957.4	920.1	888.2	882.9	893.6	877.6
40°	11323.4	8669.4	2951.8	1069.0	920.1	882.9	824.4	797.8	803.1	813.8	803.1
42.5°	11605.2	8701.2	2558.3	973.3	856.3	797.8	760.5	728.7	723.3	739.3	734.0
45°	11599.9	8520.4	2143.4	920.1	797.8	734.0	686.1	659.5	659.5	670.2	675.5
47.5°	11940.3	8493.8	1840.2	872.3	755.3	691.4	632.9	611.7	606.4	606.4	595.7
50°	12732.8	8866.1	1606.2	819.1	702.0	643.5	595.7	569.1	547.8	537.2	531.9
52.5°	14280.5	10025.6	1425.4	755.3	643.5	595.7	553.1	531.9	505.3	478.6	473.3
54°	15780.3	11222.3	1414.7	702.0	595.7	563.8	526.6	515.9	484.0	446.8	436.1
55°	16455.8	11919.1	1452.0	659.5	563.8	542.5	510.6	499.9	468.1	425.5	420.2
57.5°	17014.3	12190.3	1430.7	547.8	510.6	505.3	478.6	462.8	425.5	367.0	356.3
60°	13695.5	9217.2	1026.5	484.0	468.1	457.4	436.1	425.5	377.6	313.8	308.5
62.5°	8653.4	5302.6	654.2	425.5	409.5	393.6	367.0	356.3	313.8	250.0	234.0
65°	3685.8	2196.6	441.5	377.6	351.0	324.4	303.2	287.2	250.0	186.1	180.8
67.5°	957.4	781.8	367.0	329.7	292.5	255.3	239.4	212.7	170.2	127.6	122.3
70°	430.8	393.6	308.5	276.6	234.0	196.8	175.5	148.9	111.7	85.1	79.8
72.5°	255.3	250.0	234.0	207.4	175.5	148.9	127.6	101.1	74.5	47.8	47.8
75°	159.6	154.3	159.6	143.6	122.3	111.7	95.8	69.1	42.5	21.3	21.3
77.5°	95.8	95.8	95.8	90.4	85.1	85.1	69.1	42.5	21.3	5.3	5.3
80°	74.5	74.5	79.8	74.5	74.5	74.5	58.5	31.9	10.6	0.0	0.0
82.5°	74.5	79.8	90.4	85.1	74.5	63.8	53.2	31.9	10.6	0.0	0.0
85°	21.3	16.0	26.6	37.2	53.2	47.8	37.2	26.6	10.6	0.0	0.0
87.5°	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	5.3	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)