

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: STREETWORKS

Report Number: P649414

Luminaire Tested: **GLAN-SA5D-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649414
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: STREETWORKS
Catalog Number: GLAN-SA5D-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 17705.2 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

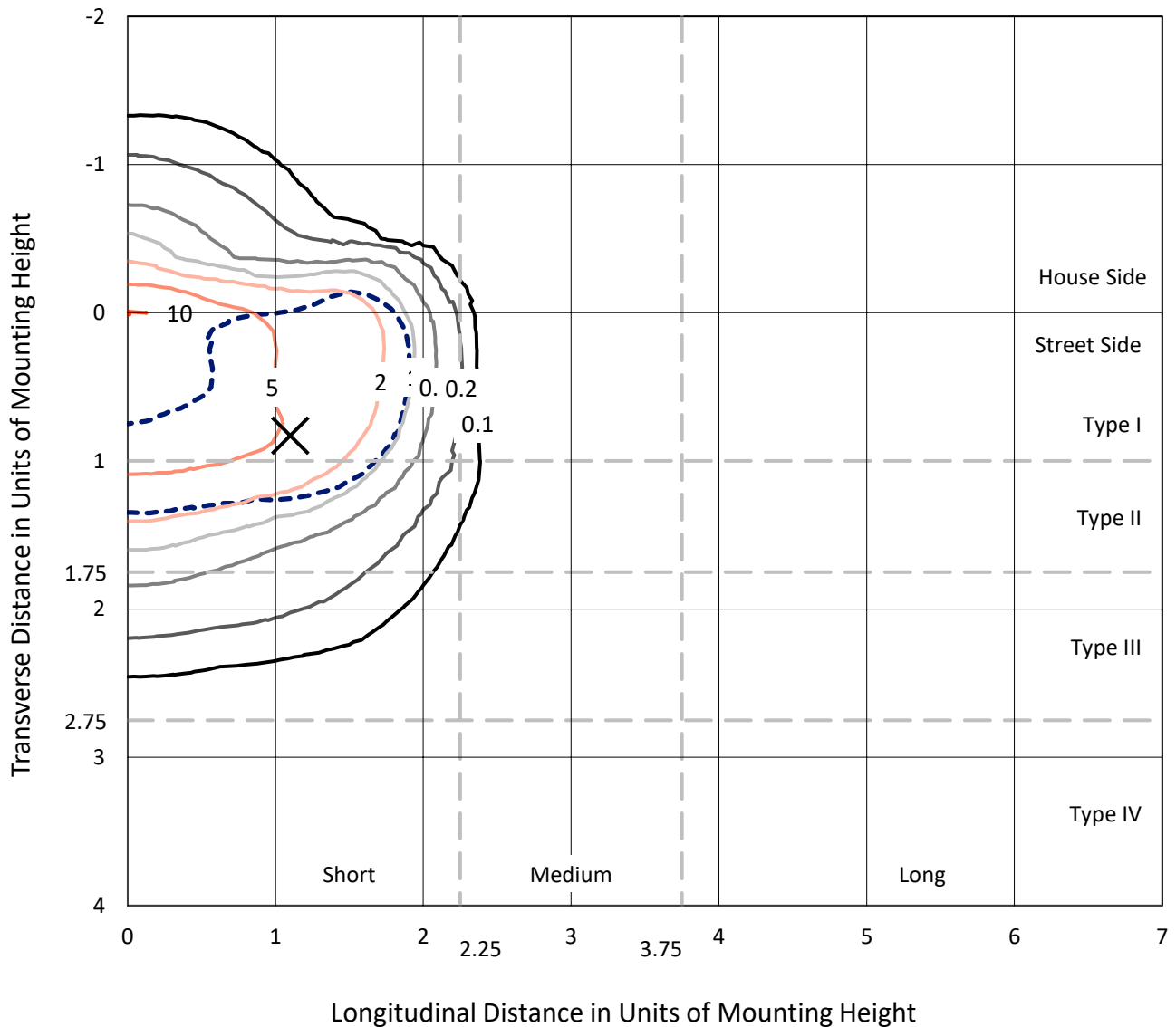
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

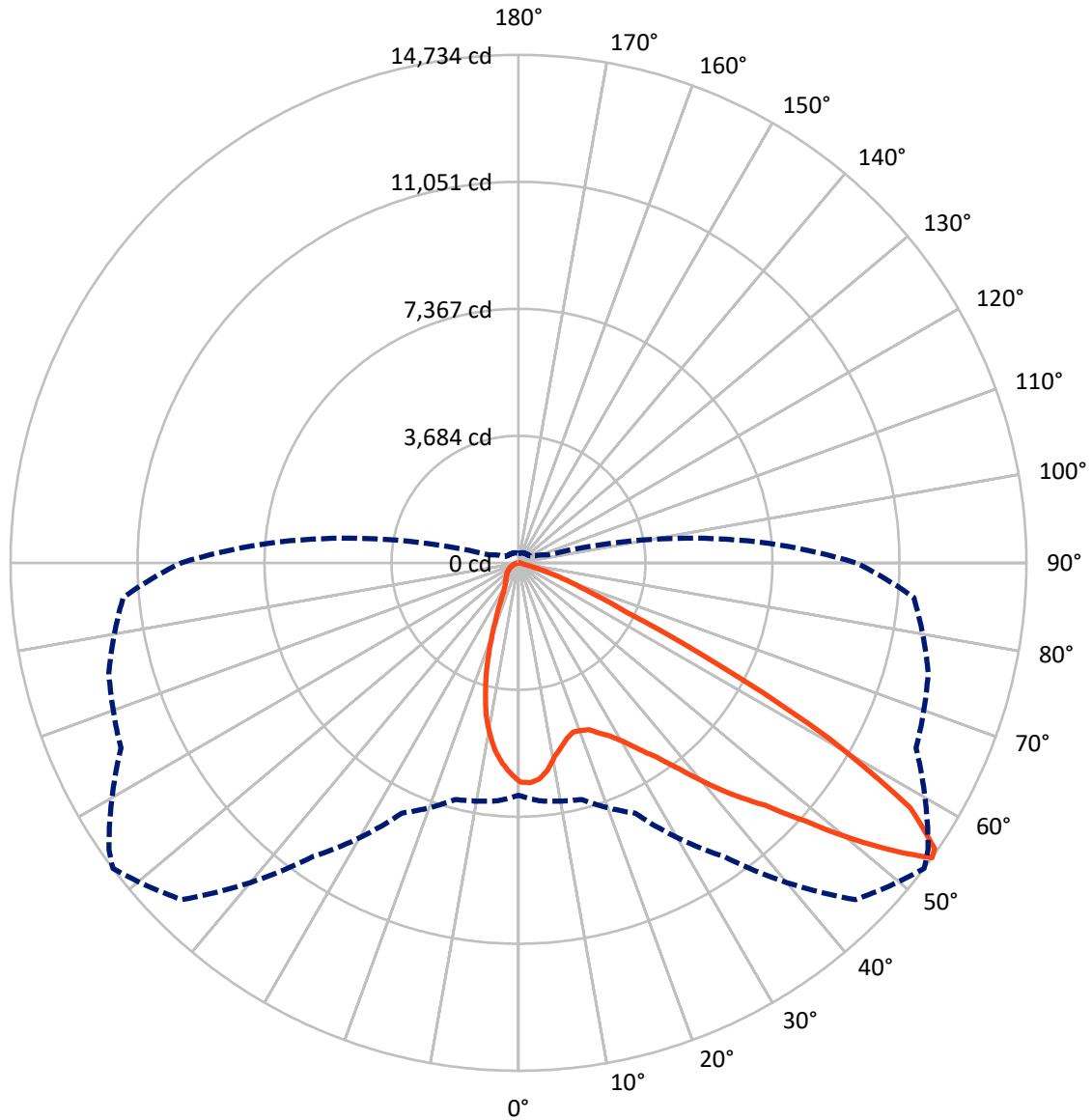
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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CATALOG NUMBER: GLAN-SA5D-835-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

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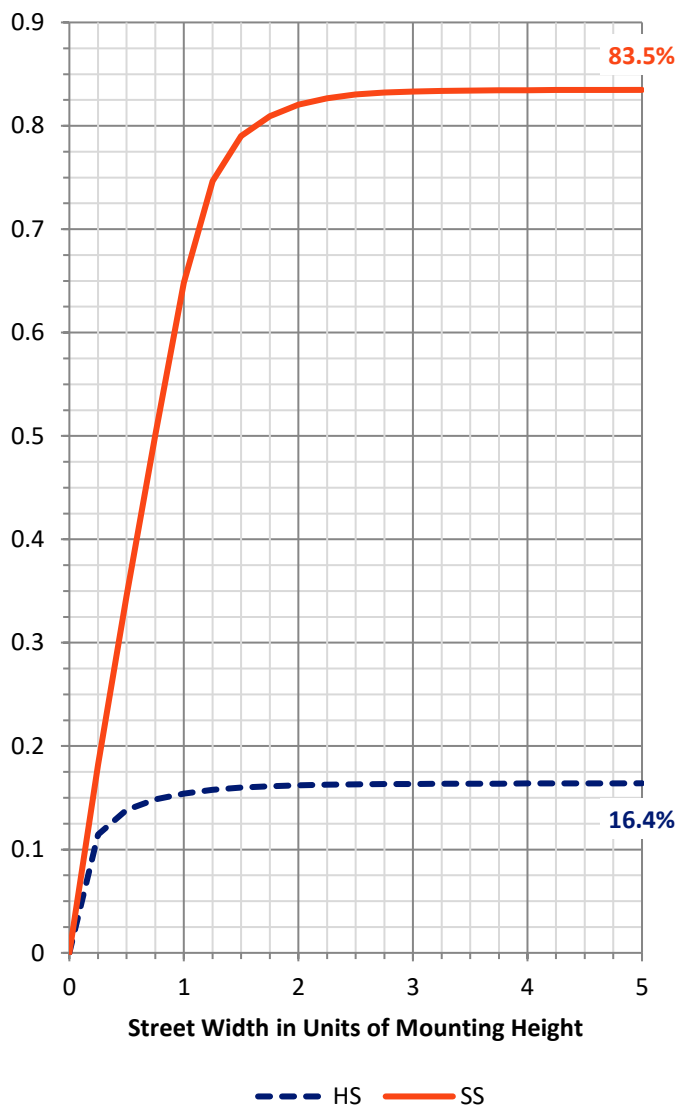
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2929.4	0.0	2929.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14775.8	0.0	14775.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	17705.2	0.0	17705.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.6	3.1
10°-20°	1250.9	7.1
20°-30°	1777.9	10.0
30°-40°	2743.7	15.5
40°-50°	4301.9	24.3
50°-60°	4997.2	28.2
60°-70°	1888.2	10.7
70°-80°	179.6	1.0
80°-90°	20.2	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°	17705.2	100.0
0°-180°	17705.2	100.0

Coefficient of Utilization

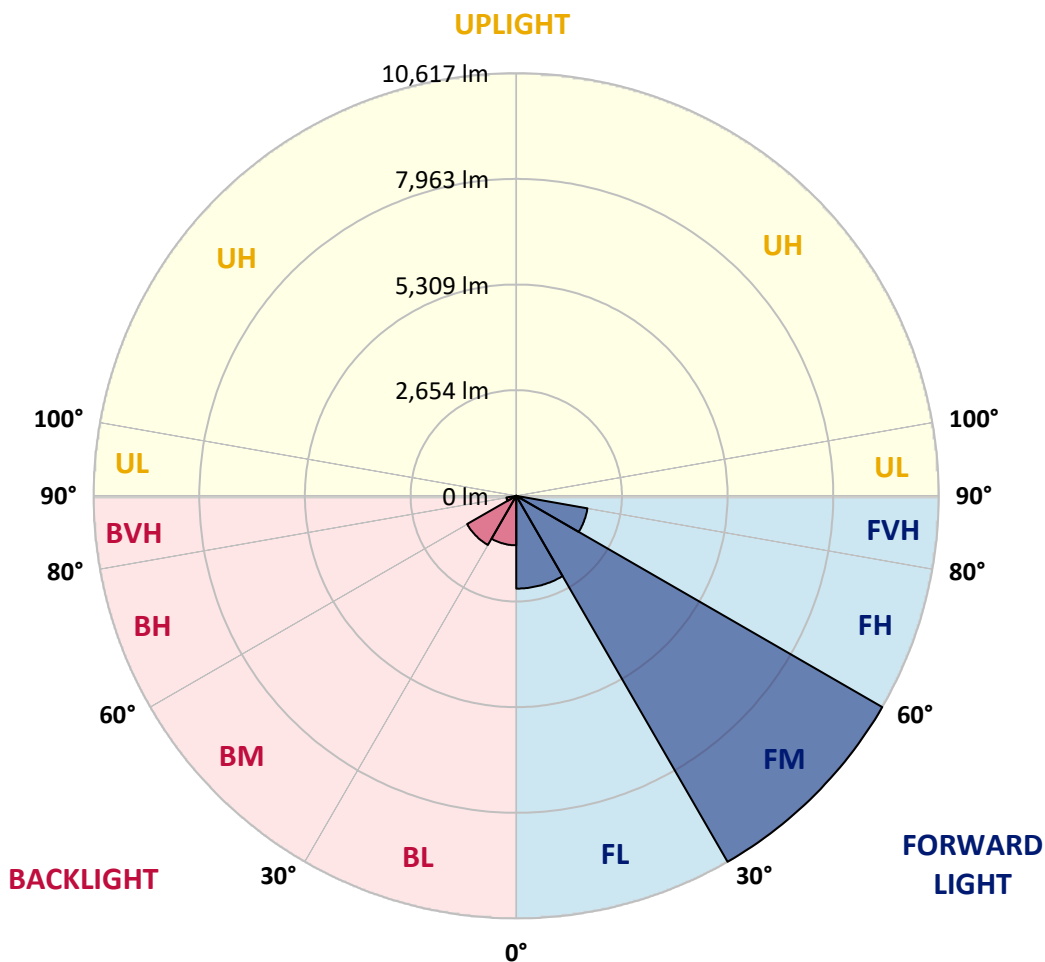


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.3	13.2			
FM (30°-60°)	10617.2	60.0			
FH (60°-80°)	1816.8	10.3			G2/5000
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	1243.1	7.0	B3/2500		
BM (30°-60°)	1425.5	8.1	B2/2500		
BH (60°-80°)	251.0	1.4	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
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°	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4
2.5°	6326.4	6270.3	6326.4	6333.0	6372.6	6408.9	6385.8	6438.6	6408.9	6375.9	6366.0
5°	5815.2	5891.1	5894.3	6013.0	5986.7	6204.4	6300.0	6273.6	6435.2	6425.4	6402.3
7.5°	5356.7	5327.0	5366.6	5505.1	5680.0	5930.6	6069.1	6065.8	6296.7	6461.6	6445.2
10°	4931.2	4927.9	5010.3	5119.2	5267.6	5531.5	5722.8	5818.5	6178.0	6428.7	6465.0
12.5°	4644.2	4631.1	4720.1	4809.1	5043.3	5247.8	5491.9	5538.1	5950.4	6313.3	6372.6
15°	4456.2	4485.9	4492.5	4664.0	4812.5	5082.9	5274.2	5369.9	5844.9	6220.9	6448.5
17.5°	4423.2	4462.8	4466.1	4608.0	4766.3	4993.8	5162.1	5290.7	5755.8	6267.1	6451.8
20°	4489.2	4466.1	4485.9	4574.9	4729.9	4947.7	5191.8	5234.7	5726.1	6290.2	6488.0
22.5°	4677.2	4670.6	4621.1	4693.7	4802.5	5030.1	5261.1	5327.0	5811.9	6408.9	6517.8
25°	4885.0	4921.3	4875.1	4865.2	4941.0	5165.4	5472.2	5557.9	6098.9	6623.3	6610.1
27.5°	5274.2	5238.0	5238.0	5191.8	5171.9	5280.8	5699.7	5841.6	6418.8	6900.3	6715.6
30°	5646.9	5686.5	5656.9	5673.3	5541.4	5531.5	6023.0	6197.8	6986.1	7322.5	6940.0
32.5°	6237.4	6184.6	6234.1	6191.2	6016.3	5838.3	6461.6	6643.1	7672.2	7807.4	7276.3
35°	6728.9	6705.8	6916.9	6910.2	6626.6	6451.8	6926.7	7197.2	8150.5	8388.0	7672.2
37.5°	7428.1	7385.3	7626.0	7741.4	7487.5	7226.9	7593.1	7906.3	8595.8	8853.1	8077.9
40°	8147.2	8256.0	8579.3	8770.5	8500.1	8153.8	8407.8	8503.4	8892.6	9156.5	8355.0
42.5°	9057.5	9215.8	9545.7	9710.6	9687.5	9311.5	9235.6	9232.4	9107.0	9070.7	8559.4
45°	9931.7	9872.2	10380.2	10739.8	11030.0	10921.1	10033.9	9934.9	9446.7	9199.4	8612.2
47.5°	10314.2	10294.5	10640.8	11280.7	12270.2	12405.5	11194.9	10812.3	10020.7	9740.3	8899.2
50°	9819.4	9921.7	10264.7	10973.9	12491.2	13523.7	12619.8	12105.3	10690.3	10400.0	9578.7
52.5°	8203.3	8272.5	8599.1	9499.5	11739.2	14183.3	13985.4	13688.6	11920.6	11439.0	10762.8
54°	6745.3	6930.0	7108.2	8012.0	10400.0	13817.2	14734.2	14506.6	12722.1	12303.2	11508.3
55°	5874.5	5983.4	6112.0	7012.5	9473.1	13197.1	14648.4	14668.2	13259.8	12573.6	12009.7
57.5°	4291.3	4367.2	4235.2	4634.3	6504.5	10716.7	13398.3	13932.6	13985.4	12979.4	12316.4
60°	3278.7	3311.6	3163.2	3225.9	4043.9	7355.5	10363.7	11006.9	12616.6	11343.4	10433.0
62.5°	2543.1	2549.7	2546.4	2655.2	2787.2	4327.6	6481.4	7052.1	8698.0	8054.8	7085.1
65°	1873.5	1843.8	1896.6	2226.5	2378.2	2721.2	3413.9	3829.5	4726.7	3991.1	2853.2
67.5°	1213.8	1223.8	1276.5	1655.8	2038.5	2087.9	2101.1	2068.1	2071.4	1141.3	715.7
70°	729.0	745.4	729.0	936.8	1457.9	1497.5	1368.8	1335.9	1042.3	270.4	267.2
72.5°	432.1	409.0	366.1	402.4	606.9	725.7	653.1	649.8	409.0	158.3	158.3
75°	181.4	164.9	135.2	122.1	161.6	155.0	155.0	138.5	108.8	105.5	99.0
77.5°	36.3	36.3	26.4	29.7	39.6	46.2	56.1	56.1	66.0	66.0	62.6
80°	0.0	3.3	9.9	19.8	29.7	42.9	49.5	49.5	56.1	56.1	46.2
82.5°	0.0	3.3	9.9	19.8	26.4	39.6	49.5	49.5	56.1	59.4	49.5
85°	0.0	3.3	9.9	16.5	26.4	33.0	33.0	29.7	23.1	19.8	13.2
87.5°	0.0	0.0	3.3	6.6	3.3	6.6	6.6	6.6	6.6	6.6	6.6
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°	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4	6359.4
2.5°	6389.1	6385.8	6306.6	6178.0	6148.3	6039.4	6026.3	5960.3	5996.6	5874.5	5861.3
5°	6336.3	6296.7	6201.0	6118.6	5877.8	5706.3	5571.0	5406.1	5310.5	5327.0	5264.3
7.5°	6412.2	6310.0	6141.7	5854.7	5561.2	5261.1	5099.4	4763.0	4640.9	4459.5	4433.1
10°	6333.0	6257.2	5996.6	5521.6	5115.9	4683.8	4304.5	3931.8	3648.1	3526.0	3499.6
12.5°	6326.4	6194.5	5759.1	5231.3	4644.2	4024.1	3473.2	3008.2	2727.8	2569.5	2533.2
15°	6224.1	6065.8	5491.9	4782.7	3971.3	3199.5	2599.2	2150.6	1936.2	1843.8	1870.2
17.5°	6234.1	5996.6	5224.7	4307.8	3308.3	2348.5	1774.6	1543.7	1487.6	1510.7	1510.7
20°	6224.1	5841.6	4901.5	3760.2	2533.2	1629.4	1302.9	1220.5	1256.7	1329.3	1312.8
22.5°	6171.4	5769.0	4604.7	3183.0	1863.6	1207.2	1045.6	1048.9	1105.0	1194.1	1213.8
25°	6211.0	5607.4	4228.6	2599.2	1359.0	963.2	907.1	930.1	989.6	1055.5	1068.7
27.5°	6181.3	5491.9	3836.1	2018.7	992.8	827.9	824.6	851.0	877.4	926.8	926.8
30°	6214.3	5386.3	3450.2	1500.8	818.0	758.6	745.4	765.2	791.6	801.6	798.2
32.5°	6336.3	5307.2	3004.9	1121.5	722.4	692.6	692.6	692.6	689.4	702.6	705.9
35°	6603.5	5320.4	2612.4	867.5	659.7	636.6	626.7	613.5	606.9	613.5	616.8
37.5°	6893.8	5313.8	2206.7	738.8	613.5	593.7	570.7	550.8	547.6	554.1	544.3
40°	7022.4	5376.5	1830.7	663.0	570.7	547.6	511.2	494.8	498.1	504.6	498.1
42.5°	7197.2	5396.3	1586.5	603.6	531.0	494.8	471.7	451.9	448.6	458.4	455.2
45°	7193.9	5284.1	1329.3	570.7	494.8	455.2	425.5	409.0	409.0	415.6	418.9
47.5°	7405.0	5267.6	1141.3	541.0	468.4	428.8	392.5	379.3	376.0	376.0	369.4
50°	7896.5	5498.5	996.1	507.9	435.4	399.1	369.4	352.9	339.7	333.2	329.9
52.5°	8856.4	6217.6	884.0	468.4	399.1	369.4	343.0	329.9	313.4	296.8	293.5
54°	9786.5	6959.7	877.4	435.4	369.4	349.6	326.5	319.9	300.1	277.1	270.4
55°	10205.4	7391.8	900.4	409.0	349.6	336.5	316.6	310.1	290.3	263.9	260.6
57.5°	10551.7	7560.0	887.3	339.7	316.6	313.4	296.8	287.0	263.9	227.6	221.0
60°	8493.5	5716.2	636.6	300.1	290.3	283.7	270.4	263.9	234.2	194.6	191.3
62.5°	5366.6	3288.5	405.7	263.9	254.0	244.1	227.6	221.0	194.6	155.0	145.2
65°	2285.8	1362.3	273.7	234.2	217.7	201.2	188.0	178.1	155.0	115.4	112.1
67.5°	593.7	484.8	227.6	204.5	181.4	158.3	148.5	131.9	105.5	79.2	75.9
70°	267.2	244.1	191.3	171.6	145.2	122.1	108.8	92.4	69.3	52.8	49.5
72.5°	158.3	155.0	145.2	128.6	108.8	92.4	79.2	62.6	46.2	29.7	29.7
75°	99.0	95.7	99.0	89.0	75.9	69.3	59.4	42.9	26.4	13.2	13.2
77.5°	59.4	59.4	59.4	56.1	52.8	52.8	42.9	26.4	13.2	3.3	3.3
80°	46.2	46.2	49.5	46.2	46.2	46.2	36.3	19.8	6.6	0.0	0.0
82.5°	46.2	49.5	56.1	52.8	46.2	39.6	33.0	19.8	6.6	0.0	0.0
85°	13.2	9.9	16.5	23.1	33.0	29.7	23.1	16.5	6.6	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	3.3	3.3	3.3	3.3	3.3	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)