

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: P323983

Luminaire Tested: **GLEON-SA9D-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323983
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-SA9D-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 41386 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

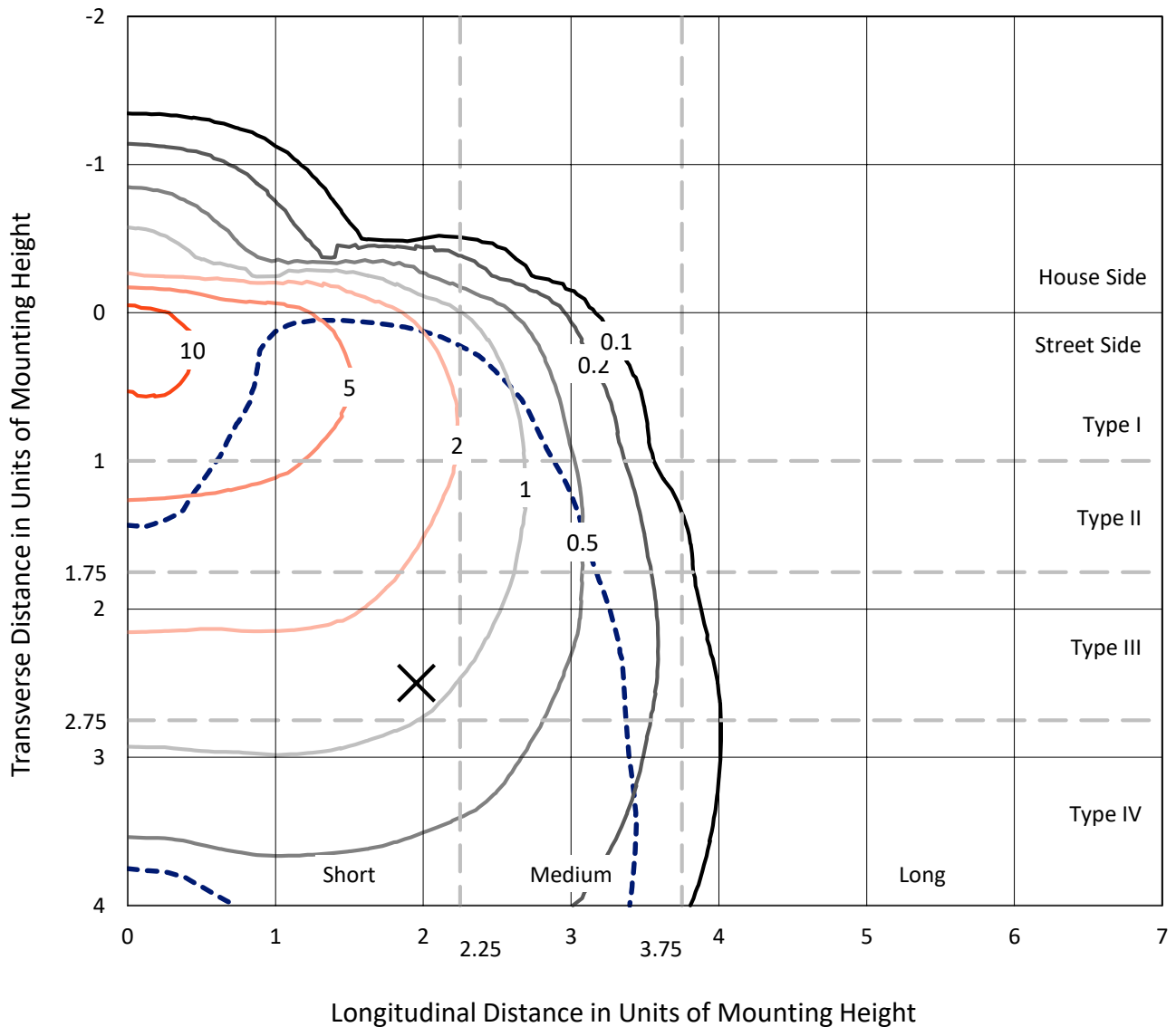
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

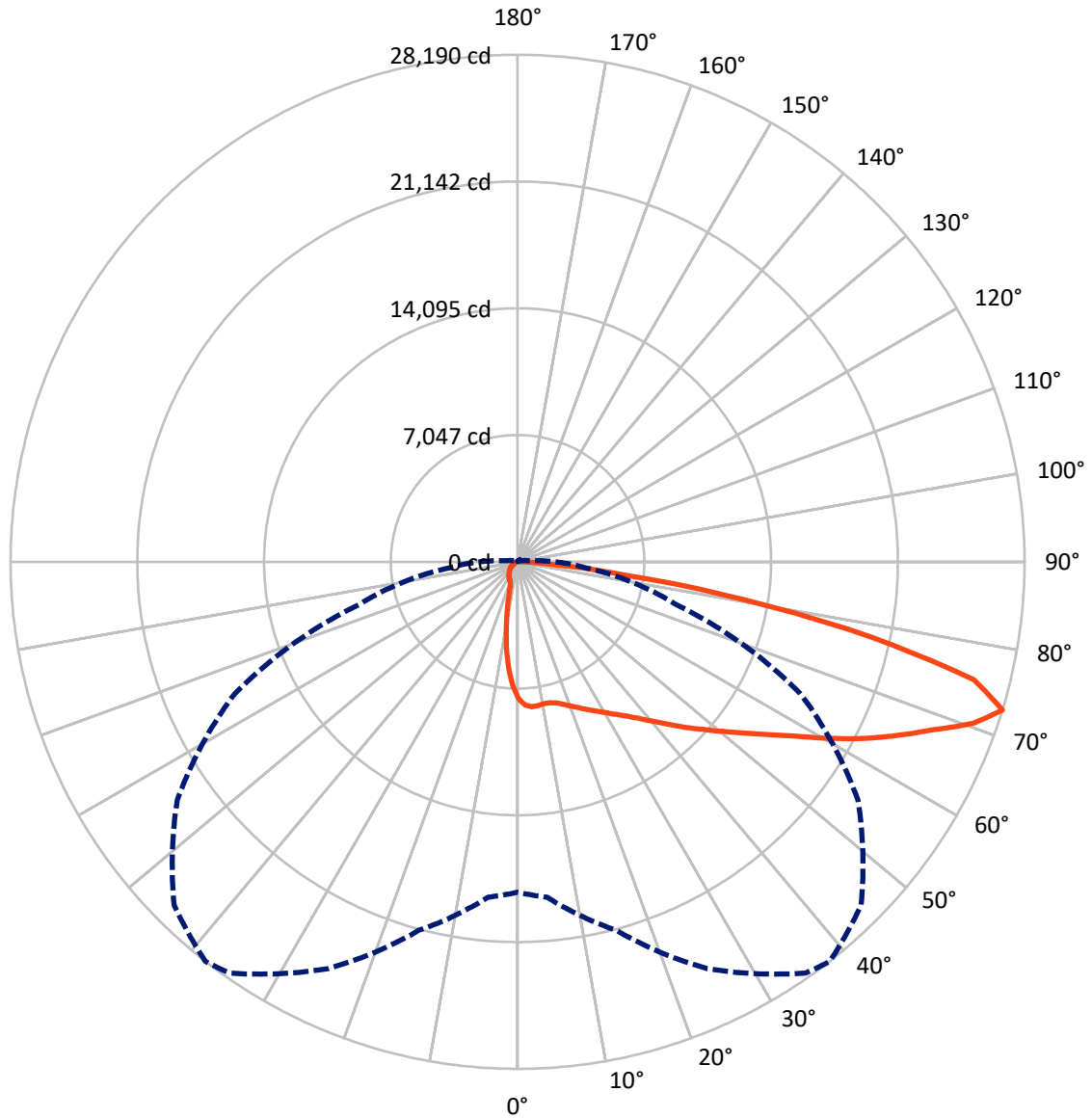
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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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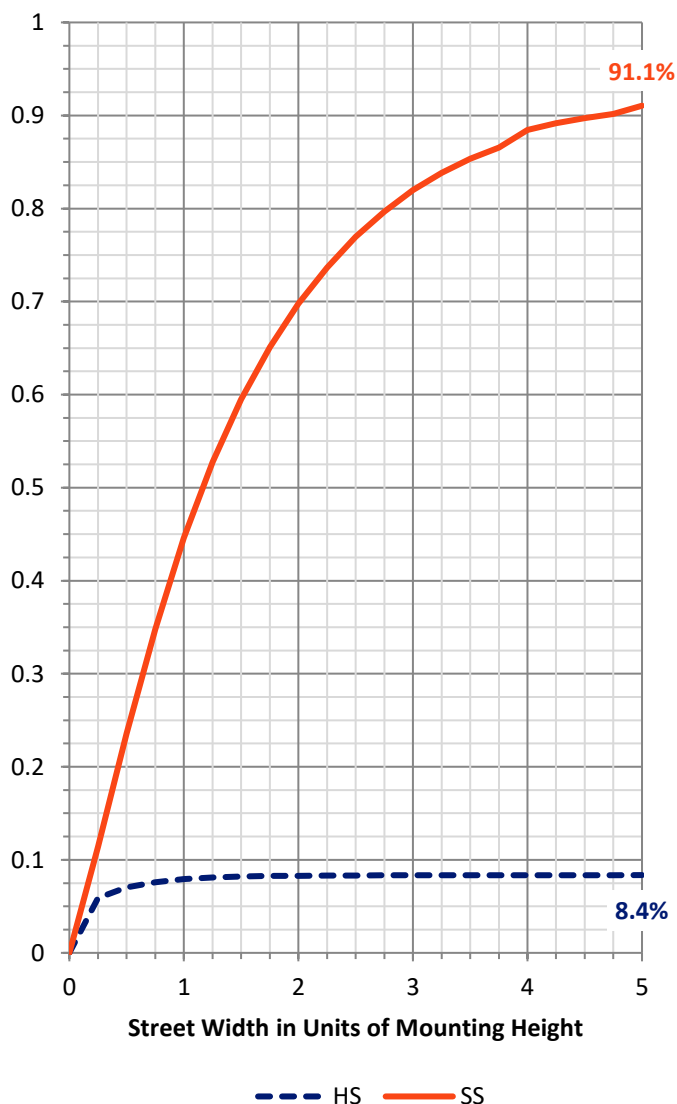
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.8	0.0	3482.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	37903.2	0.0	37903.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	41386.0	0.0	41386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.6	1.6
10°-20°	1585.9	3.8
20°-30°	2522.4	6.1
30°-40°	3792.1	9.2
40°-50°	5785.2	14.0
50°-60°	8176.4	19.8
60°-70°	10255.9	24.8
70°-80°	7668.6	18.5
80°-90°	950.9	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°	41386.0	100.0
0°-180°	41386.0	100.0

Coefficient of Utilization

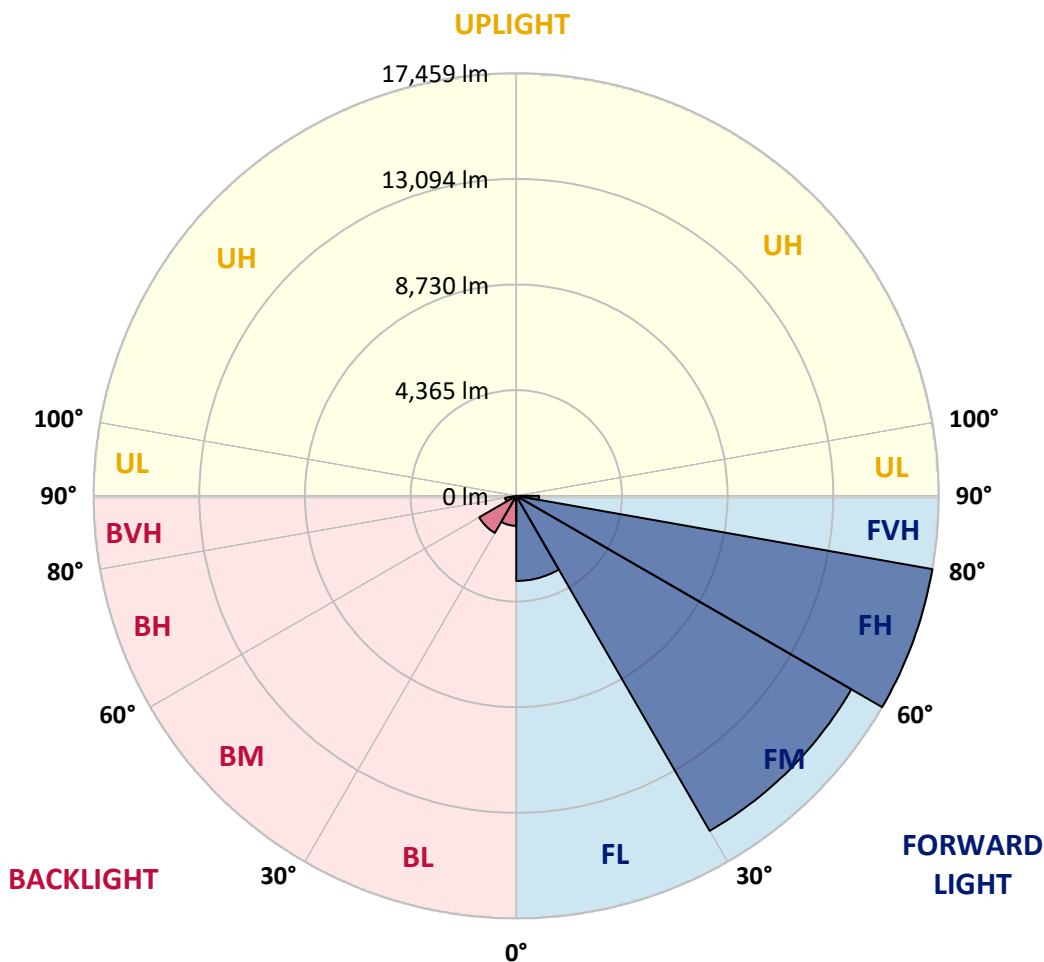


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3516.8	8.5			
FM (30°-60°)	15985.1	38.6			
FH (60°-80°)	17459.3	42.2			G5
FVH (80°-90°)	942.0	2.3			G5
BL (0°-30°)	1240.1	3.0	B3/2500		
BM (30°-60°)	1768.6	4.3	B2/2500		
BH (60°-80°)	465.2	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	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°	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7
2.5°	8078.3	8080.0	8061.1	8030.1	7990.6	7970.0	7935.6	7880.6	7822.2	7717.3	7603.9
5°	8243.3	8243.3	8219.2	8177.9	8114.4	8095.4	8030.1	7942.5	7822.2	7652.0	7461.2
7.5°	8226.1	8229.5	8196.9	8153.9	8090.3	8073.1	7994.0	7896.1	7746.5	7540.3	7296.2
10°	8136.7	8145.3	8119.5	8098.9	8040.4	8021.5	7947.6	7849.7	7700.1	7480.1	7200.0
12.5°	8045.6	8054.2	8062.8	8081.7	8045.6	8038.7	7980.3	7897.8	7755.1	7526.5	7210.3
15°	7987.2	8004.3	8066.2	8140.1	8148.7	8141.9	8104.0	8026.7	7882.3	7645.1	7284.2
17.5°	7987.2	8014.7	8143.6	8284.5	8334.4	8339.5	8306.9	8198.6	8026.7	7772.3	7352.9
20°	8054.2	8092.0	8293.1	8492.5	8575.0	8575.0	8511.4	8360.1	8159.0	7887.5	7399.3
22.5°	8226.1	8275.9	8528.6	8758.9	8846.6	8827.6	8741.7	8521.7	8296.5	8018.1	7457.8
25°	8564.7	8602.5	8865.5	9097.5	9150.8	9107.8	8999.5	8717.6	8471.9	8195.1	7564.3
27.5°	9001.2	9006.4	9278.0	9473.9	9441.2	9412.0	9276.2	8963.4	8724.5	8447.8	7748.3
30°	9480.8	9480.8	9719.7	9869.2	9769.5	9745.5	9609.7	9260.8	9047.6	8791.5	8009.5
32.5°	9944.8	9965.5	10159.7	10254.2	10142.5	10118.4	9986.1	9637.2	9477.3	9315.8	8416.9
35°	10393.5	10408.9	10592.8	10644.4	10537.8	10544.7	10450.2	10154.5	10094.4	10073.8	9030.5
37.5°	10828.3	10831.7	11019.1	11051.7	10998.5	11056.9	11065.5	10804.2	10916.0	11082.7	9895.0
40°	11225.3	11228.8	11414.4	11498.6	11589.7	11665.3	11732.4	11593.2	11962.7	12349.4	10924.6
42.5°	11543.3	11579.4	11814.9	11974.7	12215.4	12359.7	12541.9	12535.0	13208.8	13789.8	12168.9
45°	11823.5	11885.3	12213.6	12493.8	12906.3	13136.6	13421.9	13645.4	14611.3	15393.4	13428.8
47.5°	12193.0	12251.4	12626.1	13085.1	13635.1	13937.6	14410.2	14893.2	16153.1	16967.8	14659.5
50°	12713.8	12688.0	13057.6	13715.8	14422.3	14819.3	15493.1	16216.7	17682.8	18339.4	15383.1
52.5°	13269.0	13258.7	13531.9	14401.6	15350.4	15814.5	16704.8	17584.8	19145.5	19284.7	15714.8
55°	13956.5	13882.6	14112.9	15183.7	16452.1	16950.6	17999.0	18939.2	20310.8	19817.5	15881.5
57.5°	14676.6	14554.6	14774.6	16055.1	17694.8	18284.4	19432.5	20259.2	21086.0	20181.9	15879.8
60°	15420.9	15276.5	15537.8	17144.8	19238.3	19920.6	20986.3	21151.3	21809.6	20365.8	15762.9
62.5°	16043.1	15957.1	16345.6	18310.1	20962.2	21632.5	22160.2	21962.5	22419.7	20508.5	15489.6
65°	16701.4	16706.5	17333.9	19669.7	22794.4	23246.5	23291.2	23014.4	22930.2	20479.2	14564.9
67.5°	17591.7	17674.2	18720.9	21515.7	24576.8	24925.7	24922.3	24154.0	23303.2	19317.3	12514.4
70°	18533.6	18727.8	20319.4	23628.0	26522.5	26876.5	26694.3	24879.3	21941.9	15620.3	8856.9
72.5°	18375.5	18712.3	21208.0	24960.1	27919.8	28189.7	27005.4	23096.9	17342.5	9078.6	3771.0
75°	14176.5	14566.6	19446.3	23640.1	26453.7	26211.4	23203.5	17973.3	9477.3	2533.5	849.1
77.5°	7488.7	7696.7	12846.1	18009.4	20627.1	20120.0	16345.6	9970.6	2889.3	627.4	381.6
80°	3922.3	3970.4	5598.1	10218.1	12731.0	12734.4	9687.0	4379.4	1191.1	321.4	256.1
82.5°	2100.3	2141.6	2958.0	4721.5	6670.6	6046.7	3709.1	2409.7	692.7	182.2	245.8
85°	505.3	513.9	1677.5	2157.1	2622.9	1873.5	1101.7	2023.0	187.3	106.6	199.4
87.5°	194.2	197.7	622.2	933.3	668.6	433.1	515.6	754.5	24.1	41.3	30.9
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°	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7	7610.7
2.5°	7535.1	7490.4	7380.4	7241.2	7117.5	7028.1	6894.0	6806.4	6747.9	6746.2	6723.9
5°	7344.3	7253.2	7016.1	6734.2	6478.1	6247.8	5976.2	5761.3	5601.5	5575.7	5520.7
7.5°	7139.8	6990.3	6625.9	6185.9	5756.2	5319.6	4812.6	4498.0	4228.2	4099.3	4085.5
10°	7014.3	6804.6	6287.3	5651.3	4977.6	4267.7	3604.3	3145.4	2813.6	2719.1	2648.6
12.5°	6988.6	6711.8	6026.0	5149.5	4186.9	3248.5	2514.6	2026.4	1761.7	1677.5	1655.2
15°	7014.3	6668.9	5806.0	4652.7	3386.0	2304.9	1687.8	1404.2	1304.6	1280.5	1278.8
17.5°	7029.8	6617.3	5556.8	4101.0	2609.1	1646.6	1292.5	1210.0	1194.6	1192.8	1196.3
20°	7028.1	6538.2	5259.5	3485.7	1940.5	1294.2	1168.8	1151.6	1148.1	1149.9	1148.1
22.5°	7016.1	6445.4	4932.9	2851.5	1466.1	1156.7	1115.5	1105.2	1103.5	1103.5	1103.5
25°	7038.4	6371.5	4573.7	2244.7	1208.3	1093.1	1067.4	1058.8	1057.0	1057.0	1053.6
27.5°	7119.2	6330.3	4180.1	1727.4	1091.4	1036.4	1015.8	1014.1	1008.9	1007.2	1010.6
30°	7249.8	6330.3	3748.7	1344.1	1021.0	978.0	962.5	959.1	957.4	955.6	957.4
32.5°	7480.1	6378.4	3277.7	1117.2	953.9	912.7	902.4	907.5	902.4	902.4	902.4
35°	7896.1	6522.8	2784.4	974.5	883.5	849.1	838.8	845.6	842.2	842.2	840.5
37.5°	8502.8	6790.9	2287.7	888.6	821.6	785.5	771.7	782.0	778.6	778.6	776.9
40°	9241.9	7181.1	1815.0	823.3	761.4	723.6	711.6	716.7	708.1	708.1	711.6
42.5°	10154.5	7676.1	1402.5	759.7	701.3	665.2	658.3	653.1	637.7	629.1	630.8
45°	11168.6	8191.7	1093.1	697.8	644.5	615.3	605.0	591.3	565.5	548.3	550.0
47.5°	12074.4	8588.7	888.6	637.7	593.0	570.6	555.2	529.4	491.6	470.9	472.7
50°	12550.5	8648.9	756.3	577.5	544.9	522.5	500.2	460.6	415.9	393.6	391.9
52.5°	12672.6	8367.0	658.3	522.5	496.7	470.9	441.7	388.4	338.6	314.5	311.1
55°	12717.2	7937.3	570.6	470.9	445.2	415.9	378.1	318.0	271.6	247.5	245.8
57.5°	12569.4	7296.2	501.9	424.5	393.6	357.5	311.1	254.4	209.7	190.8	190.8
60°	12241.1	6428.2	448.6	374.7	340.3	299.1	250.9	197.7	156.4	140.9	140.9
62.5°	11586.3	5304.1	398.8	323.1	290.5	247.5	202.8	149.5	110.0	101.4	103.1
65°	10350.5	4023.7	348.9	276.7	247.5	204.5	158.1	106.6	73.9	73.9	77.3
67.5°	8440.9	2794.7	297.3	235.5	213.1	166.7	120.3	73.9	51.6	58.4	65.3
70°	5587.7	1567.5	254.4	194.2	182.2	132.3	89.4	49.8	41.3	55.0	67.0
72.5°	2108.9	610.2	213.1	156.4	158.1	101.4	63.6	37.8	37.8	60.2	79.1
75°	587.8	299.1	153.0	115.2	123.8	73.9	46.4	32.7	36.1	68.8	92.8
77.5°	345.5	220.0	99.7	67.0	84.2	51.6	30.9	25.8	30.9	58.4	89.4
80°	278.4	116.9	58.4	34.4	46.4	29.2	20.6	15.5	8.6	22.3	46.4
82.5°	278.4	70.5	27.5	24.1	24.1	15.5	10.3	6.9	1.7	0.0	12.0
85°	187.3	29.2	17.2	15.5	12.0	5.2	3.4	1.7	0.0	0.0	0.0
87.5°	30.9	12.0	6.9	3.4	1.7	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)