

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: P383489

Luminaire Tested: **GLEON-SA7D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52272.9 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

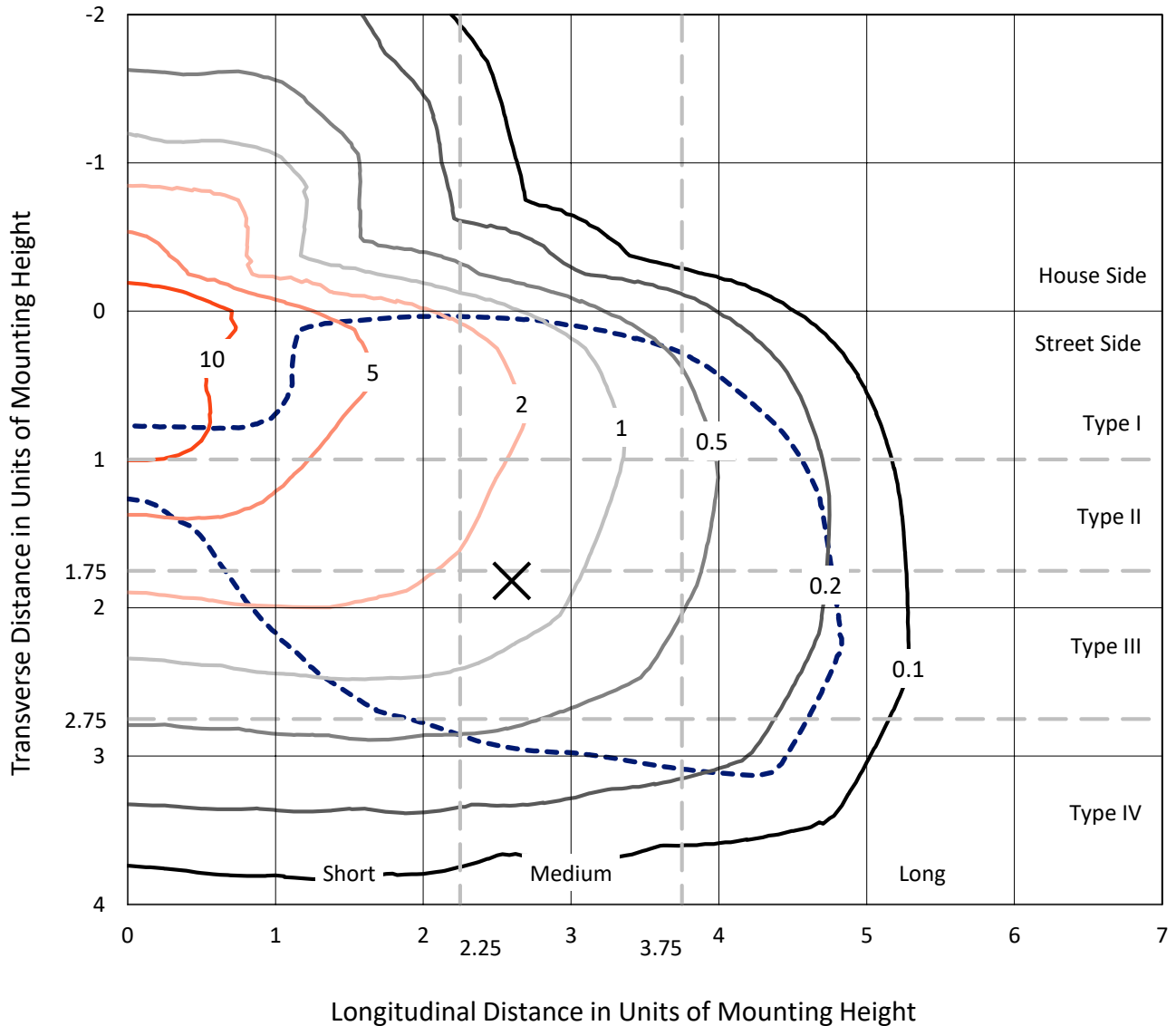
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

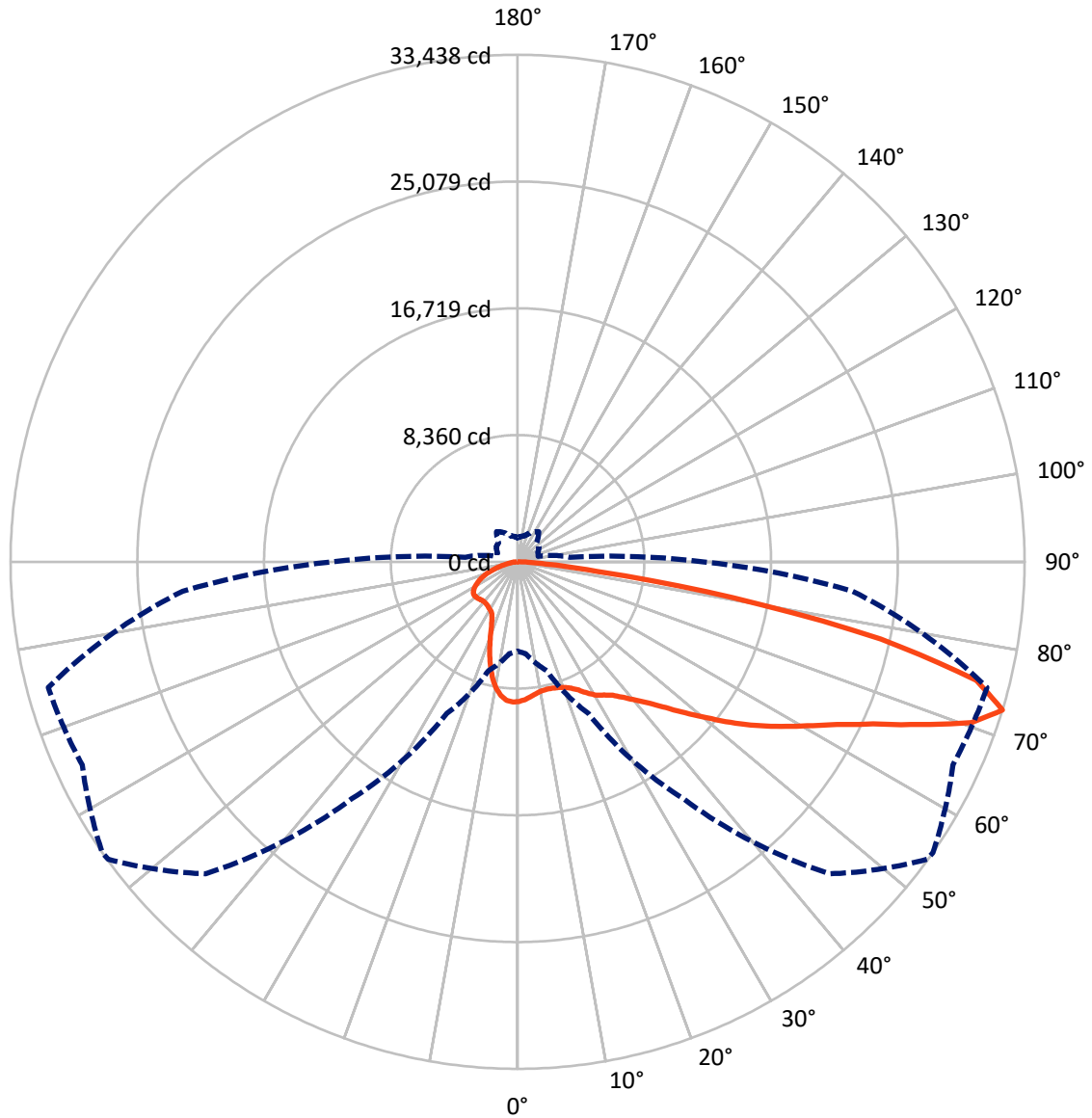
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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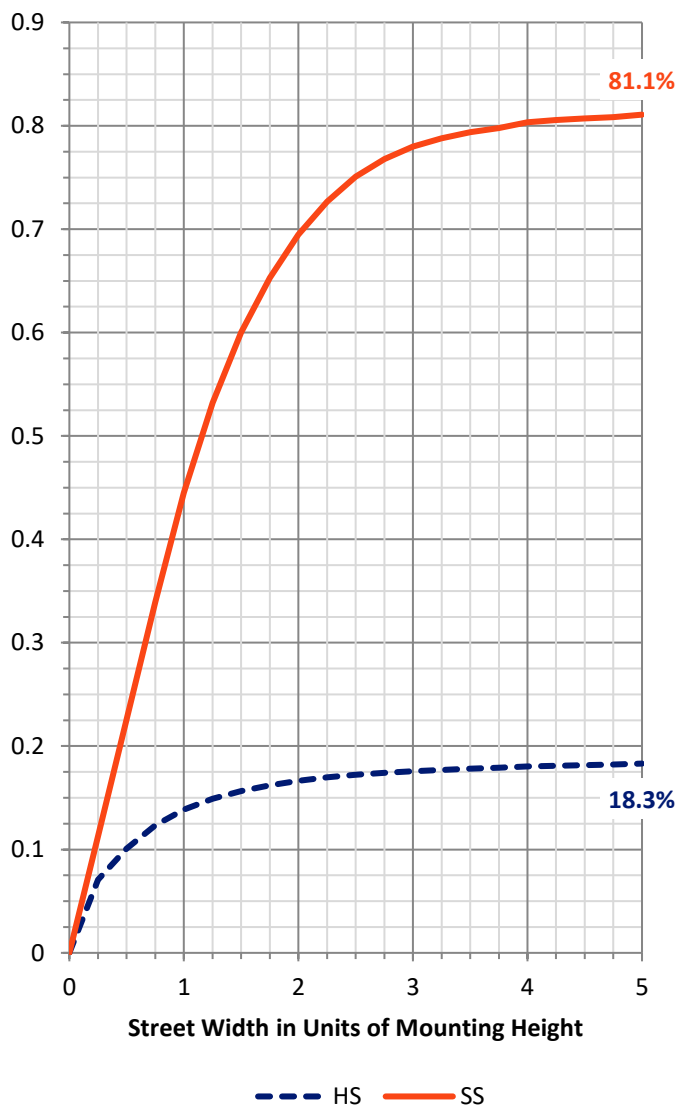
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9715.8	0.0	9715.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42557.0	0.0	42557.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	52272.9	0.0	52272.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.3	1.6
10°-20°	2221.2	4.2
20°-30°	3662.2	7.0
30°-40°	5417.3	10.4
40°-50°	7561.3	14.5
50°-60°	9845.1	18.8
60°-70°	12099.4	23.1
70°-80°	9484.4	18.1
80°-90°	1147.8	2.2
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°	52272.9	100.0
0°-180°	52272.9	100.0

Coefficient of Utilization

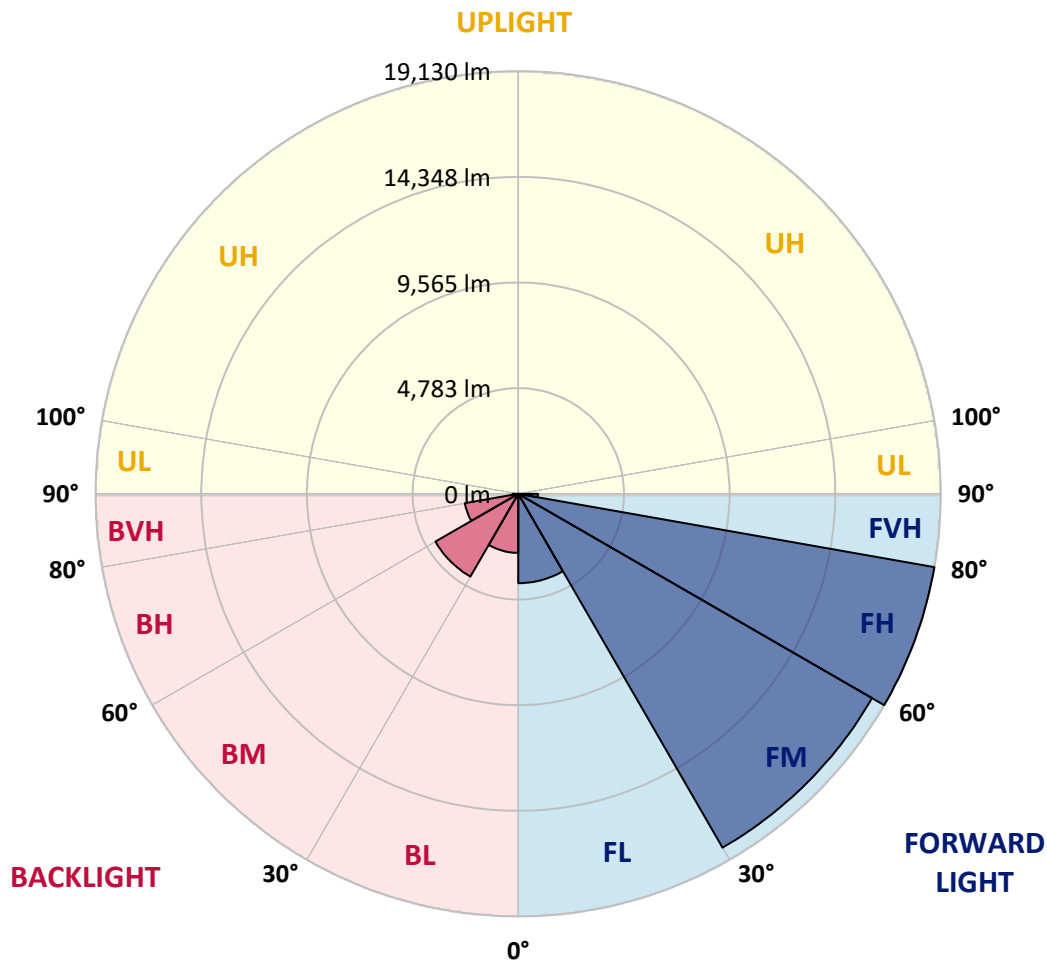


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4044.4	7.7			
FM (30°-60°)	18495.2	35.4			
FH (60°-80°)	19130.1	36.6			G5
FVH (80°-90°)	887.4	1.7			G5
BL (0°-30°)	2673.2	5.1	B4/5000		
BM (30°-60°)	4328.5	8.3	B3/5000		
BH (60°-80°)	2453.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	260.4	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8
2.5°	8919.7	8898.5	8925.0	8962.0	9002.7	9057.3	9089.1	9103.3	9158.0	9179.2	9225.1
5°	8506.5	8495.9	8540.1	8603.6	8693.7	8820.8	8923.2	8942.6	9087.4	9189.8	9283.3
7.5°	8206.4	8206.4	8257.6	8333.5	8434.1	8605.4	8750.2	8776.7	9022.0	9242.7	9415.8
10°	7968.0	7976.8	8036.8	8126.9	8245.2	8427.1	8619.5	8649.5	9004.4	9366.3	9641.8
12.5°	7809.2	7830.3	7885.0	7966.2	8112.8	8333.5	8577.1	8617.7	9041.5	9542.9	9913.7
15°	7909.8	7945.1	7950.4	7983.9	8065.2	8305.2	8601.8	8644.2	9121.0	9723.0	10222.6
17.5°	8351.1	8363.5	8308.8	8238.1	8199.3	8352.9	8676.0	8720.1	9216.3	9901.3	10519.2
20°	9022.0	9015.0	8896.7	8706.1	8508.3	8533.0	8797.8	8843.7	9345.2	10058.5	10815.9
22.5°	9869.6	9844.8	9662.9	9311.7	8974.4	8833.1	9011.5	9050.4	9539.4	10282.7	11133.7
25°	10897.1	10842.4	10602.2	10130.9	9634.7	9271.0	9332.8	9369.9	9821.9	10533.4	11425.0
27.5°	11981.2	11926.4	11621.0	11050.7	10390.4	9823.6	9775.9	9807.7	10143.2	10718.8	11640.4
30°	13114.7	13056.4	12777.4	12138.3	11192.0	10395.7	10189.1	10201.5	10369.1	10819.5	11817.0
32.5°	14253.4	14198.7	13886.2	13144.7	12062.3	11010.1	10487.5	10471.6	10505.2	10923.6	12016.5
35°	15408.2	15429.3	15063.9	14242.9	13026.4	11693.3	10840.6	10807.1	10732.9	11137.2	12298.9
37.5°	16644.1	16629.9	16156.8	15298.7	14034.5	12434.9	11347.3	11342.1	11086.0	11541.5	12742.1
40°	17470.3	17479.2	17191.3	16379.2	15053.3	13255.9	11997.0	11984.7	11649.2	12147.1	13323.0
42.5°	17793.4	17851.7	17925.9	17410.3	16119.7	14207.5	12772.2	12754.5	12434.9	13015.8	14006.3
45°	17816.4	17932.9	18391.9	18326.6	17200.2	15296.9	13762.6	13713.2	13483.7	14170.4	14821.9
47.5°	17618.6	17738.7	18501.4	18872.2	18165.9	16446.3	14920.9	14882.0	14684.3	15614.7	15704.8
50°	17186.0	17300.8	18275.4	19138.7	18960.4	17551.6	16255.6	16153.2	16047.3	17283.2	16714.7
52.5°	16375.7	16596.4	17973.5	19202.4	19435.4	18533.2	17659.3	17592.2	17650.4	19043.4	17726.3
55°	14456.5	14703.6	17194.9	19149.4	19786.7	19357.7	19062.8	19059.4	19361.3	20890.2	18812.1
57.5°	13381.2	13556.1	15609.4	19059.4	20203.4	20176.9	20452.4	20485.9	21073.8	22901.2	19949.2
60°	12773.9	12957.5	14806.1	18725.6	20849.6	21236.3	21870.1	21937.2	22814.7	25127.6	21317.5
62.5°	12221.3	12422.6	14308.2	18045.9	21610.6	22751.1	23568.6	23628.6	24658.0	27415.8	22639.9
65°	11276.7	11504.4	13579.0	17599.2	22302.6	24726.8	25727.9	25768.5	26774.9	29813.4	23651.6
67.5°	9941.9	10150.2	12203.6	16612.3	22814.7	27126.2	28598.7	28621.7	28874.2	31506.6	24168.9
70°	8382.9	8462.4	10243.9	14574.8	22209.1	29370.3	31745.0	31750.2	30788.0	32590.7	24084.1
72.5°	5889.9	6077.1	7436.5	11033.1	19085.8	29096.6	33378.1	33438.2	31677.8	32043.4	22159.7
75°	3612.4	3810.1	4664.6	6686.2	12108.3	22883.6	30839.3	31255.9	30009.4	28570.5	18102.4
77.5°	2415.3	2489.5	3043.8	3898.3	5485.6	13165.8	23709.8	24493.7	24929.9	20835.5	11576.8
80°	1347.1	1488.3	2018.0	2422.4	2440.0	5231.4	14216.3	14400.0	13870.3	8296.5	3571.7
82.5°	713.3	791.0	1347.1	1423.0	1331.3	1751.4	5298.5	5303.8	4431.6	2224.6	1061.1
85°	552.6	618.0	923.3	868.7	679.8	776.8	1748.0	1843.3	1507.8	911.1	346.1
87.5°	275.5	342.5	626.7	550.8	266.6	222.5	625.0	667.4	595.0	356.7	125.4
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°	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8	9219.8
2.5°	9242.7	9258.7	9278.0	9256.9	9249.8	9221.6	9173.9	9163.4	9138.6	9140.3	9154.5
5°	9324.0	9350.5	9339.9	9258.7	9161.6	9025.6	8884.4	8764.3	8684.8	8679.5	8674.3
7.5°	9479.3	9497.0	9414.0	9182.7	8910.8	8596.6	8299.9	8040.4	7883.3	7844.5	7835.6
10°	9723.0	9719.5	9491.7	9025.6	8483.6	7922.2	7445.4	7085.3	6875.1	6813.3	6797.4
12.5°	9994.9	9954.3	9518.2	8739.6	7879.8	7101.1	6497.3	6096.5	5877.6	5807.0	5789.3
15°	10275.6	10175.0	9452.9	8312.3	7138.2	6216.6	5582.8	5212.0	5093.7	5054.9	5047.8
17.5°	10536.9	10342.7	9265.7	7733.2	6292.5	5335.5	4841.2	4692.9	4721.2	4772.3	4774.1
20°	10792.9	10455.7	8965.6	7002.3	5400.8	4609.9	4442.2	4551.6	4685.8	4790.0	4804.1
22.5°	11045.5	10535.2	8578.9	6158.3	4602.9	4202.0	4320.3	4519.9	4673.5	4786.5	4805.9
25°	11257.3	10554.6	8045.7	5257.8	4048.4	4048.4	4262.1	4451.0	4602.9	4714.1	4733.5
27.5°	11335.0	10423.9	7293.6	4424.5	3769.5	3977.8	4180.9	4338.0	4466.9	4585.2	4606.4
30°	11365.0	10182.0	6424.9	3755.3	3654.7	3901.9	4071.4	4205.6	4327.4	4438.6	4458.1
32.5°	11370.3	9890.7	5503.3	3375.7	3575.3	3822.4	3935.4	4053.7	4184.4	4228.6	4235.6
35°	11403.8	9546.4	4532.3	3181.5	3501.1	3748.3	3838.3	3923.1	3711.2	3727.1	3741.3
37.5°	11500.9	9205.6	3720.0	3072.1	3453.4	3709.4	3817.2	3510.0	3344.0	3305.1	3299.8
40°	11682.8	8842.0	3118.0	2983.8	3435.8	3728.9	3681.2	3276.9	2990.9	2777.2	2745.5
42.5°	11935.3	8450.0	2733.1	2925.5	3448.1	3822.4	3492.3	3052.7	2577.8	2440.0	2422.4
45°	12219.5	8038.6	2524.8	2884.9	3490.5	3894.9	3453.4	2754.3	2385.3	2281.1	2272.3
47.5°	12494.9	7535.5	2417.1	2867.3	3548.8	3836.6	3289.3	2662.5	2293.5	2238.8	2244.0
50°	12811.0	7081.7	2351.8	2847.8	3600.0	3799.5	3103.9	2614.9	2258.2	2325.2	2395.8
52.5°	13077.6	6612.0	2293.5	2809.0	3619.4	3734.2	3056.2	2623.6	2258.2	2387.1	2454.2
55°	13393.6	6257.2	2226.4	2727.9	3582.4	3548.8	3022.7	2676.6	2284.6	2203.4	2210.5
57.5°	13801.4	6140.7	2152.2	2600.7	3458.7	3278.7	3006.8	2727.9	2268.8	2217.5	2235.2
60°	14366.4	6264.3	2122.3	2434.7	3266.3	3066.8	3008.5	2701.3	2157.6	2069.2	2071.0
62.5°	14904.9	6402.0	2120.5	2330.5	3029.7	2877.9	2967.9	2614.9	2101.0	2049.9	2069.2
65°	15081.5	6262.5	2035.7	2214.0	2763.2	2651.9	2893.8	2523.0	2058.6	1980.9	1977.4
67.5°	14845.0	5829.9	1864.4	2025.1	2457.7	2388.9	2796.7	2413.5	1991.6	1928.0	1917.4
70°	14142.2	4864.2	1652.6	1776.2	2109.9	2092.2	2643.1	2286.4	1901.5	1846.8	1800.9
72.5°	12251.2	3465.8	1393.0	1477.8	1717.9	1774.4	2431.2	2120.5	1774.4	1656.1	1585.5
75°	10062.0	2565.4	1144.1	1161.7	1304.7	1458.3	2139.9	1926.3	1624.3	1423.0	1368.4
77.5°	6161.8	1569.6	911.1	918.1	935.7	1163.5	1762.0	1709.1	1433.7	1186.4	1147.7
80°	1995.1	856.3	658.6	692.1	639.1	852.7	1363.0	1454.8	1230.6	992.3	949.9
82.5°	759.2	499.7	444.9	467.9	443.1	572.1	994.1	1165.3	1008.1	815.7	663.8
85°	367.2	282.4	263.1	294.8	273.7	293.1	635.6	858.0	764.5	531.4	494.4
87.5°	130.7	125.4	100.6	135.9	116.5	104.1	194.2	432.6	505.0	365.4	326.6
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)