

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: P383221

Luminaire Tested: **GLEON-SA5C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32260.4 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

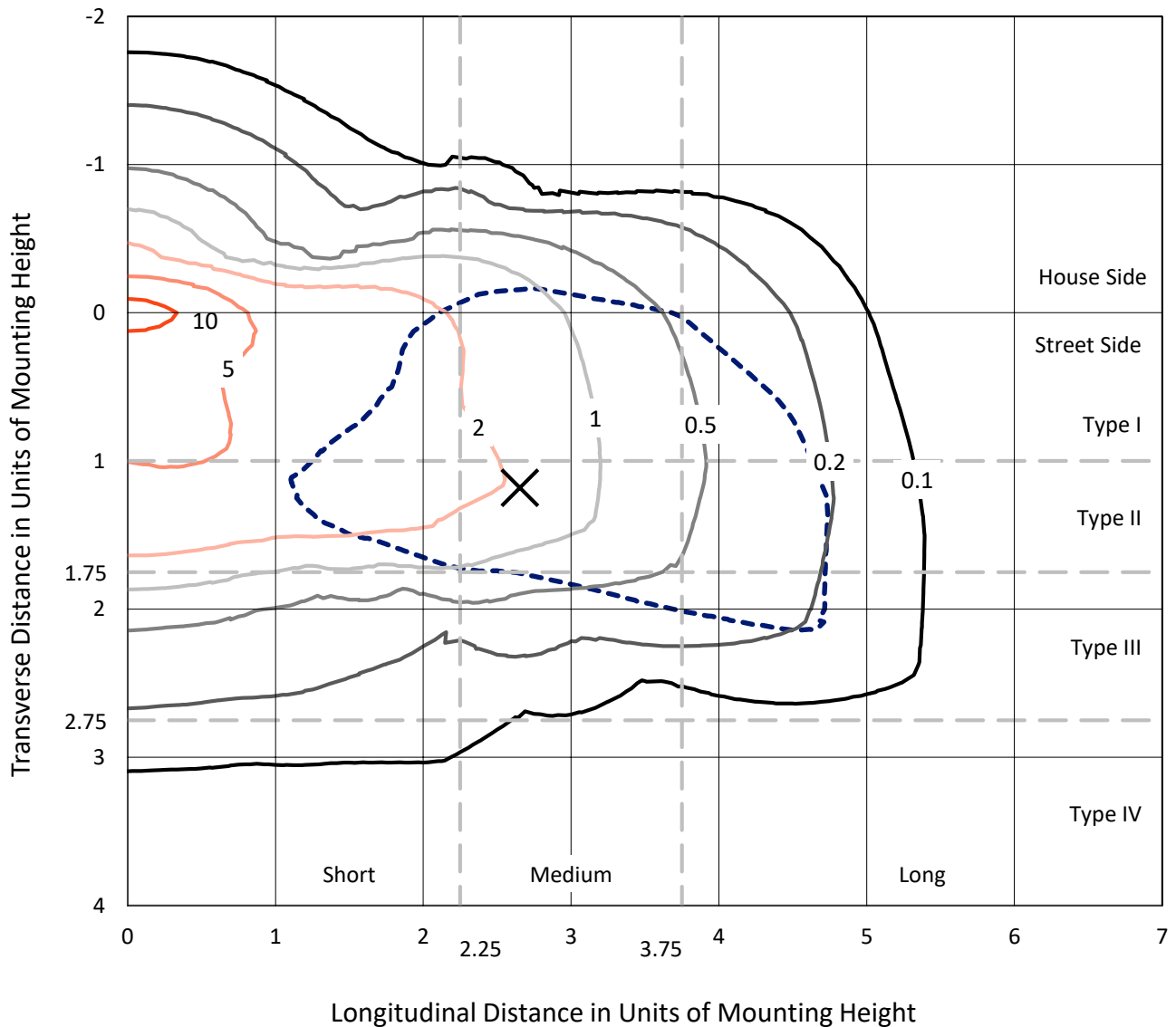
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

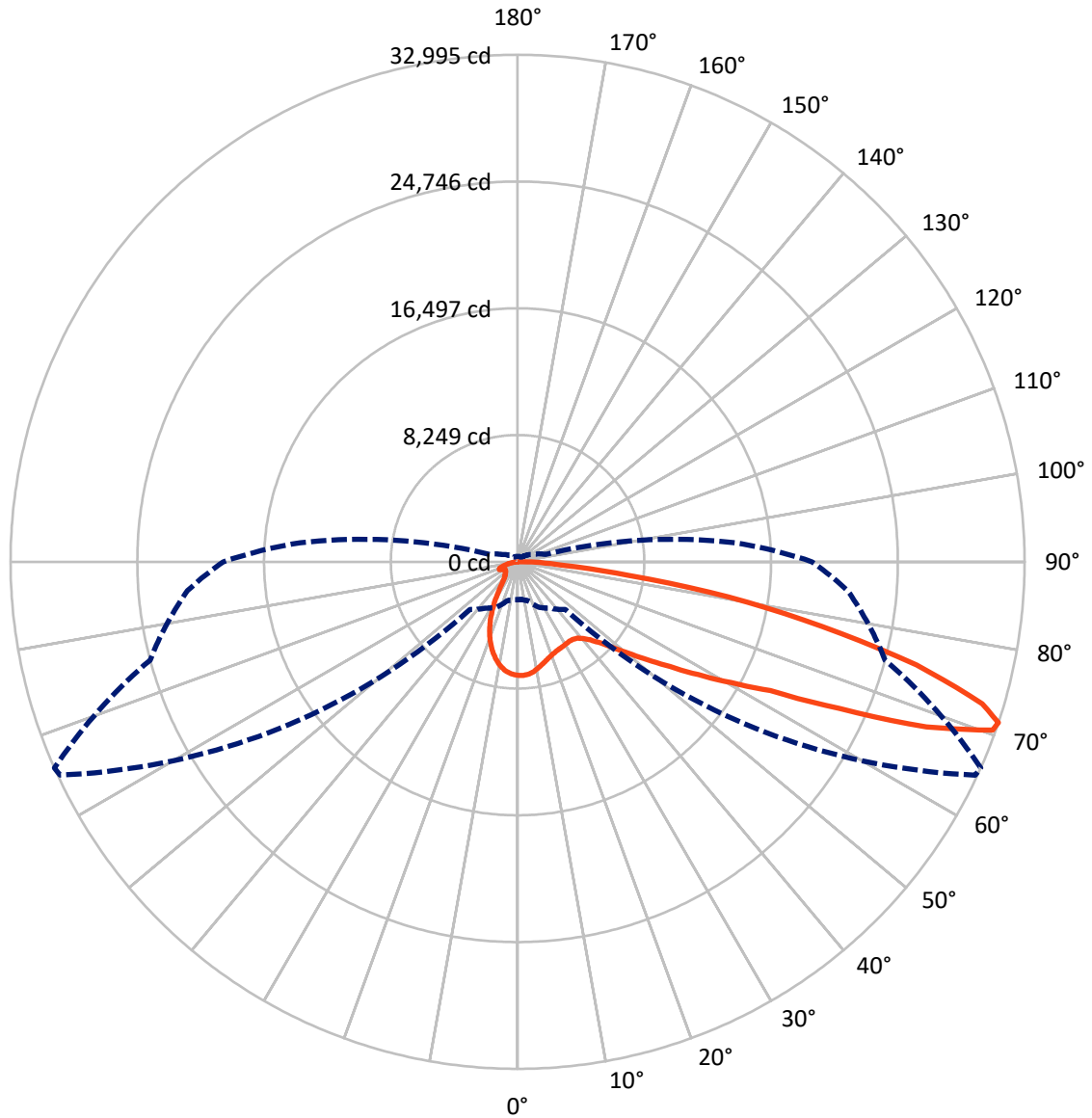
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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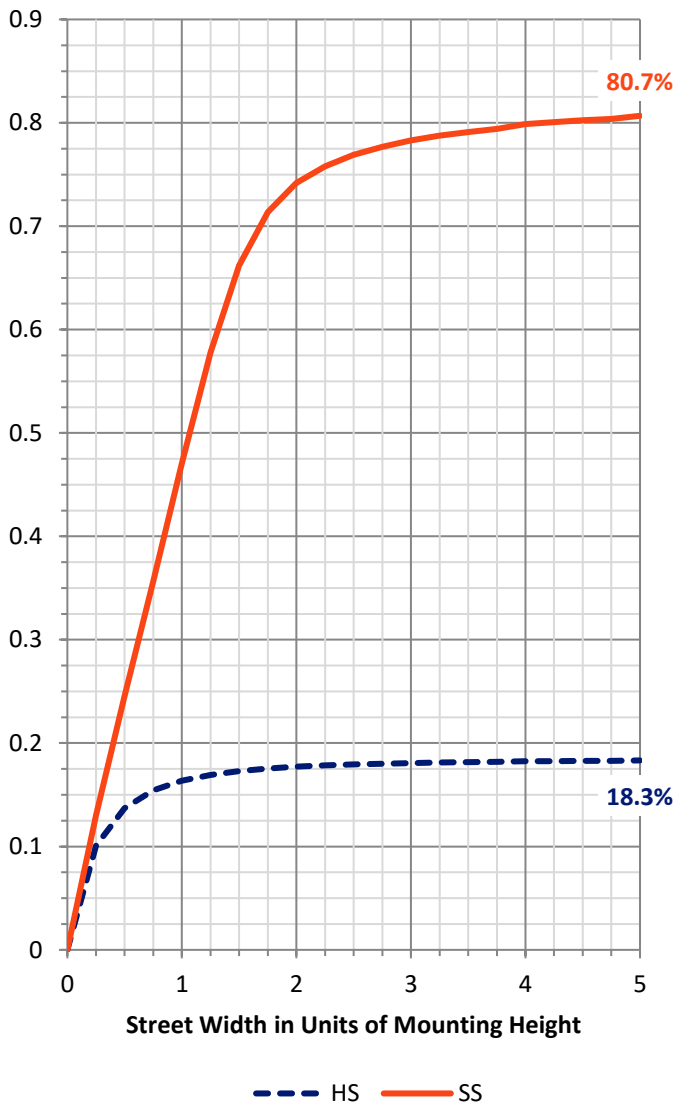
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5978.7	0.0	5978.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	26281.7	0.0	26281.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	32260.4	0.0	32260.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.5	2.0
10°-20°	1560.2	4.8
20°-30°	2095.8	6.5
30°-40°	2757.0	8.5
40°-50°	4010.6	12.4
50°-60°	6265.0	19.4
60°-70°	7848.0	24.3
70°-80°	5986.3	18.6
80°-90°	1087.0	3.4
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°	32260.4	100.0
0°-180°	32260.4	100.0

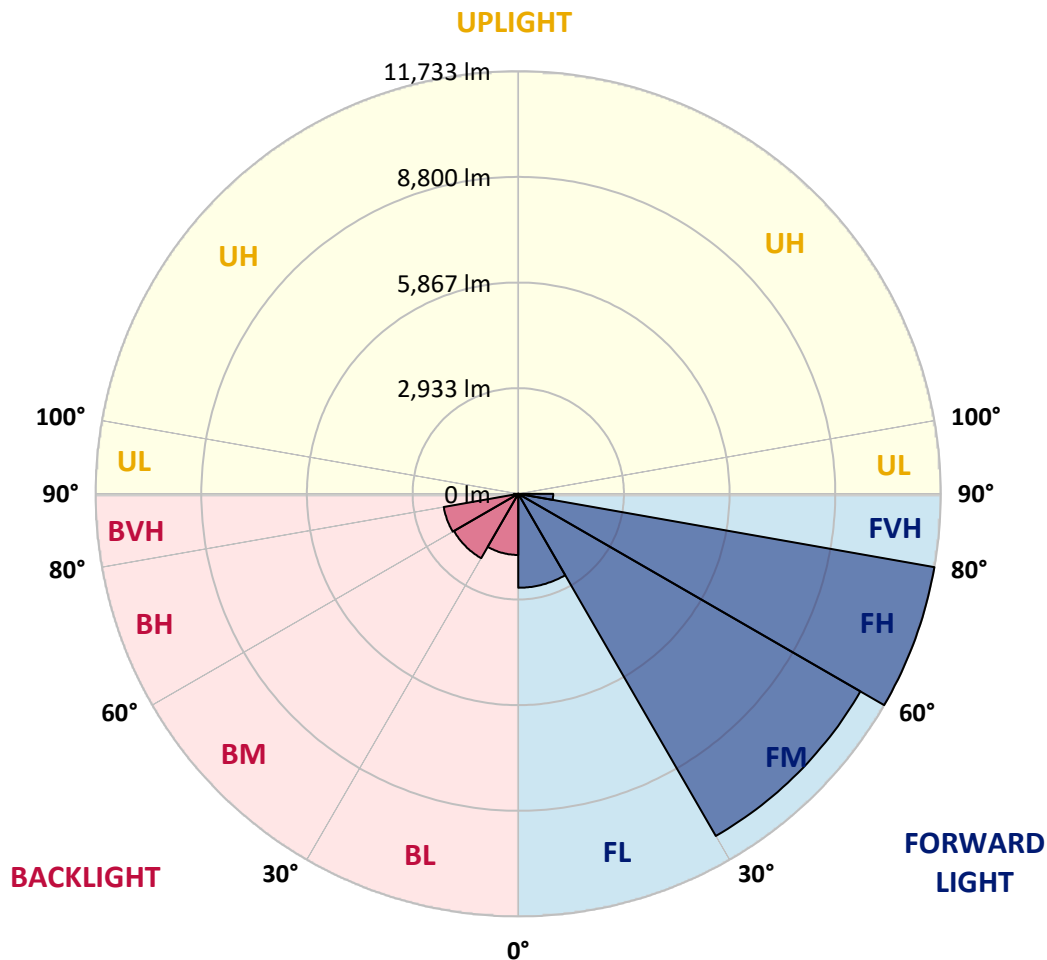


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.7	8.1			
FM (30°-60°)	10970.2	34.0			
FH (60°-80°)	11733.5	36.4			G4/12000
FVH (80°-90°)	969.4	3.0			G5
BL (0°-30°)	1697.8	5.3	B3/2500		
BM (30°-60°)	2062.5	6.4	B2/2500		
BH (60°-80°)	2100.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	117.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2
2.5°	7253.2	7242.1	7275.5	7310.0	7323.5	7345.7	7379.1	7398.1	7397.0	7400.3	7389.1
5°	6772.1	6757.5	6824.4	6879.0	6983.7	7101.7	7245.5	7348.0	7350.1	7408.0	7423.7
7.5°	6316.5	6306.5	6383.3	6471.4	6592.7	6773.2	7006.0	7226.5	7239.9	7397.0	7451.5
10°	5951.2	5949.0	6023.6	6119.3	6260.8	6462.4	6729.8	7052.7	7072.8	7343.5	7455.9
12.5°	5666.0	5670.5	5735.1	5844.3	5993.5	6204.0	6493.6	6857.9	6890.1	7258.8	7430.3
15°	5455.5	5473.3	5525.7	5636.0	5783.0	5996.8	6294.2	6677.4	6726.4	7164.2	7415.9
17.5°	5335.3	5355.3	5392.1	5483.4	5621.5	5827.6	6109.4	6529.2	6573.8	7091.8	7417.0
20°	5299.6	5316.2	5337.5	5393.1	5510.1	5697.3	5963.4	6395.6	6443.5	7033.8	7428.1
22.5°	5369.7	5382.0	5384.3	5379.8	5451.0	5603.6	5857.6	6297.5	6348.8	6995.9	7435.9
25°	5520.2	5536.8	5524.5	5483.4	5460.0	5553.5	5803.1	6233.0	6284.2	6968.1	7420.3
27.5°	5746.3	5748.5	5738.4	5685.0	5574.7	5559.1	5786.3	6195.1	6244.1	6935.8	7388.0
30°	6053.7	6068.1	6050.3	5977.9	5797.5	5648.3	5806.3	6158.4	6202.9	6894.6	7335.7
32.5°	6413.4	6449.0	6448.0	6372.2	6113.8	5847.6	5888.8	6136.1	6170.6	6851.2	7272.2
35°	6786.5	6835.5	6926.9	6894.6	6575.0	6162.8	6047.0	6171.7	6195.1	6845.6	7227.6
37.5°	7174.1	7223.1	7411.4	7498.3	7124.0	6613.9	6296.4	6297.5	6308.7	6913.5	7224.2
40°	7579.6	7632.0	7914.9	8141.0	7835.8	7185.3	6698.6	6560.4	6548.2	7080.6	7290.0
42.5°	8147.6	8194.5	8534.1	8822.6	8625.5	7917.0	7254.3	6965.8	6940.2	7408.0	7500.5
45°	8866.1	8906.2	9267.0	9575.6	9474.2	8752.4	7952.7	7523.9	7519.5	7953.8	7927.1
47.5°	9720.3	9751.5	10075.7	10374.2	10411.0	9713.7	8830.4	8384.9	8312.5	8702.3	8587.6
50°	10610.3	10644.8	10865.4	11186.1	11459.1	11000.2	9959.8	9439.7	9342.8	9690.3	9523.2
52.5°	11199.5	11245.2	11436.8	11843.3	12637.5	12410.3	11295.3	10718.4	10571.3	10887.6	10759.6
55°	10936.6	11039.1	11332.1	11983.6	13579.7	14564.4	12942.6	12209.8	12043.8	12306.7	12230.9
57.5°	9741.6	9881.9	10281.8	11287.6	13712.3	16462.3	15433.1	13966.2	13849.3	13773.6	13808.1
60°	7557.3	7692.1	8187.7	9498.7	12788.9	17848.0	19181.2	16131.5	15962.3	15246.1	15277.3
62.5°	5348.6	5280.7	5620.4	6579.3	10392.0	18010.5	23446.0	19027.5	18470.5	16800.9	16664.0
65°	4078.9	4063.2	4215.8	4521.0	6294.2	16064.7	25986.7	23894.9	23025.1	18629.8	18306.9
67.5°	3351.5	3323.7	3474.0	3918.5	4053.3	10364.1	26042.3	29542.0	28687.8	20906.5	20207.0
70°	2755.6	2724.4	2864.8	3438.3	3745.8	5256.2	21917.9	32849.0	32803.3	23789.1	21641.6
71°	2470.5	2448.2	2616.3	3253.5	3680.1	4380.7	18923.9	32857.9	32994.9	24764.8	21557.0
72.5°	2011.6	2019.4	2197.6	2896.0	3631.1	3868.3	13908.4	31326.4	31616.0	25694.9	20787.3
75°	1336.6	1343.3	1577.2	2227.6	3520.8	3784.8	7644.2	26286.3	26818.7	25137.9	18968.5
77.5°	897.7	895.5	1054.8	1528.2	3067.5	3784.8	4482.0	19660.1	20245.0	20002.1	14623.4
80°	618.2	613.7	726.2	1054.8	2322.3	3830.4	3465.1	13778.1	13955.1	10801.9	5943.4
82.5°	378.7	382.0	474.5	745.1	1580.6	3447.3	3271.3	7512.7	7320.1	3029.6	1484.7
85°	217.2	216.1	302.9	504.5	1014.7	2909.3	3190.0	3233.4	2966.1	912.3	536.9
87.5°	78.0	83.6	162.6	279.6	581.4	2026.0	2706.6	1681.9	1515.9	412.1	242.9
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°	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2	7390.2
2.5°	7381.3	7388.0	7380.2	7335.7	7297.8	7236.5	7202.0	7154.1	7139.7	7133.0	7150.7
5°	7409.2	7411.4	7345.7	7228.7	7097.3	6942.5	6831.1	6694.1	6629.5	6601.7	6619.5
7.5°	7434.8	7424.8	7281.1	7057.2	6814.4	6544.9	6305.4	6086.0	5957.9	5905.5	5909.9
10°	7438.1	7395.8	7165.3	6818.8	6442.4	6047.0	5679.4	5340.8	5127.0	4987.7	5030.1
12.5°	7403.6	7332.3	6994.8	6510.3	5987.9	5448.8	4952.1	4444.1	4139.0	3997.6	4002.0
15°	7376.8	7247.6	6785.4	6147.2	5445.5	4731.5	4053.3	3456.2	3130.9	2986.2	2918.3
17.5°	7354.6	7156.3	6542.6	5738.4	4805.0	3899.6	3084.2	2551.8	2373.6	2331.2	2313.4
20°	7323.5	7059.5	6271.9	5265.0	4075.5	2968.4	2252.2	1989.3	1990.4	2039.4	2046.1
22.5°	7280.0	6949.2	5983.5	4733.8	3292.5	2161.9	1765.4	1689.6	1766.5	1860.1	1876.8
25°	7215.4	6818.8	5662.7	4146.8	2510.5	1661.8	1508.1	1504.8	1598.3	1696.3	1710.9
27.5°	7124.0	6648.5	5306.3	3516.3	1850.1	1412.3	1351.1	1374.5	1443.5	1514.8	1520.4
30°	7001.5	6450.1	4913.1	2851.4	1450.2	1257.5	1250.8	1272.0	1314.3	1364.4	1368.9
32.5°	6866.7	6248.5	4493.1	2207.6	1241.9	1173.9	1180.6	1190.7	1210.7	1230.8	1235.2
35°	6744.2	6042.5	4063.2	1677.4	1142.8	1119.4	1115.0	1112.7	1115.0	1108.3	1109.4
37.5°	6665.1	5872.1	3615.5	1335.5	1086.0	1071.5	1058.1	1041.5	1022.5	1011.4	1013.6
40°	6636.2	5745.1	3162.1	1153.9	1039.2	1029.2	1003.6	967.9	945.6	939.0	939.0
42.5°	6714.1	5679.4	2724.4	1062.6	1000.2	983.5	941.1	900.0	883.3	882.2	881.1
45°	6952.5	5706.1	2307.8	1012.5	964.6	932.3	876.6	842.0	830.9	833.2	832.1
47.5°	7380.2	5874.3	1951.4	979.1	928.9	886.6	824.2	796.4	783.1	783.1	784.2
50°	8107.5	6267.5	1667.4	951.2	898.9	844.3	786.3	751.9	734.0	732.9	732.9
52.5°	9166.8	6971.4	1490.3	927.8	865.4	806.4	748.5	705.1	683.8	679.5	677.2
55°	10494.4	7980.6	1441.3	912.3	820.9	765.2	702.9	659.3	636.0	626.0	624.9
57.5°	11979.2	9208.0	1538.2	893.3	775.2	716.2	652.7	611.5	587.0	574.8	573.6
60°	13481.7	10547.9	1933.6	866.5	737.3	662.7	601.5	563.6	539.1	525.8	523.5
62.5°	14986.6	11960.2	2741.2	864.3	710.6	611.5	549.1	516.8	493.4	478.9	475.6
65°	16684.0	13506.2	3658.9	923.3	701.7	564.7	495.7	470.1	450.0	436.6	435.5
67.5°	18633.2	15251.7	3570.9	1044.7	731.8	522.4	445.6	425.4	411.0	399.8	398.8
70°	19547.7	14978.7	2219.9	1130.5	774.1	481.1	397.7	383.1	372.1	364.2	360.9
71°	19164.5	14222.5	1861.2	1120.5	769.6	463.4	378.7	367.6	356.4	349.7	346.4
72.5°	18119.7	12970.5	1552.7	1042.6	719.5	431.0	354.2	343.1	333.0	325.2	323.0
75°	16259.6	11583.8	1243.1	833.2	573.6	364.2	310.8	298.5	290.7	286.3	281.8
77.5°	11952.5	8266.8	961.3	658.2	422.2	297.3	265.1	256.2	248.4	241.7	238.4
80°	4578.9	3202.3	647.1	491.2	309.6	235.0	213.9	209.4	201.6	197.1	197.1
82.5°	1233.0	956.8	345.3	297.3	207.2	171.5	163.8	161.5	154.8	145.9	147.0
85°	499.0	422.2	193.8	163.8	127.0	101.4	110.3	111.4	103.6	92.4	93.5
87.5°	219.4	179.3	108.1	72.4	55.7	38.9	50.1	50.1	45.6	37.9	34.6
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)