

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: P323331

Luminaire Tested: **GLEON-SA7C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30462 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

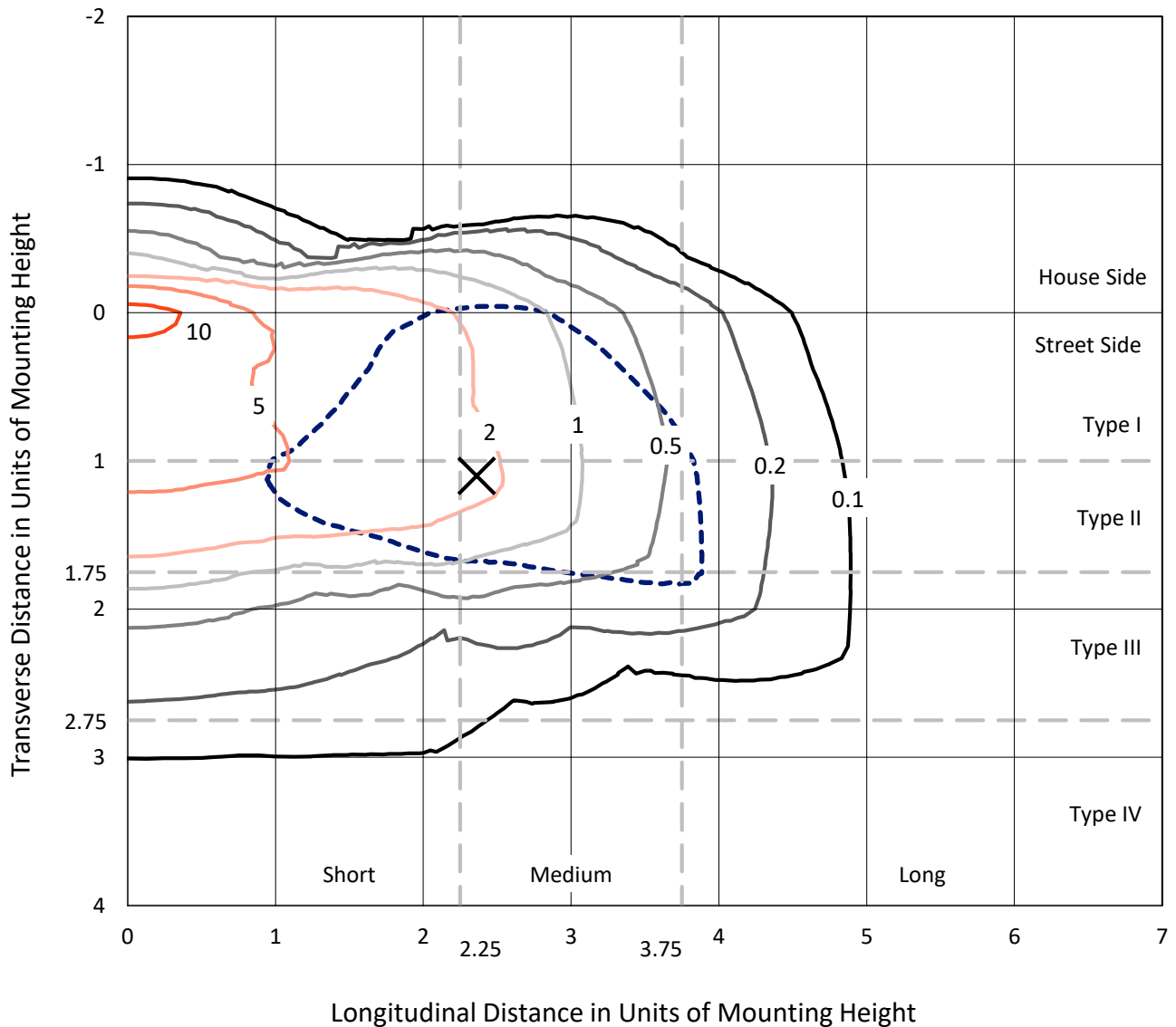
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

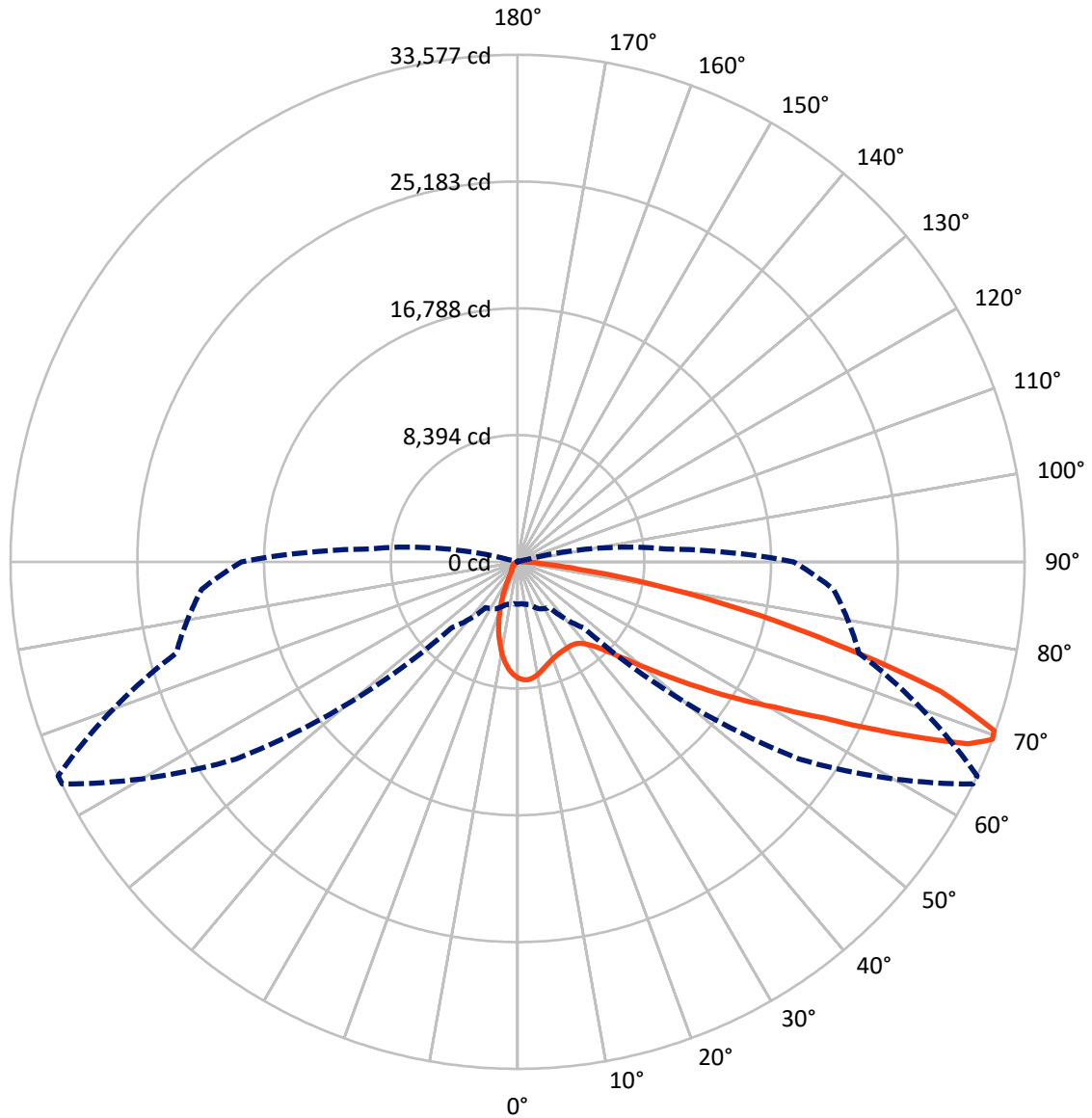
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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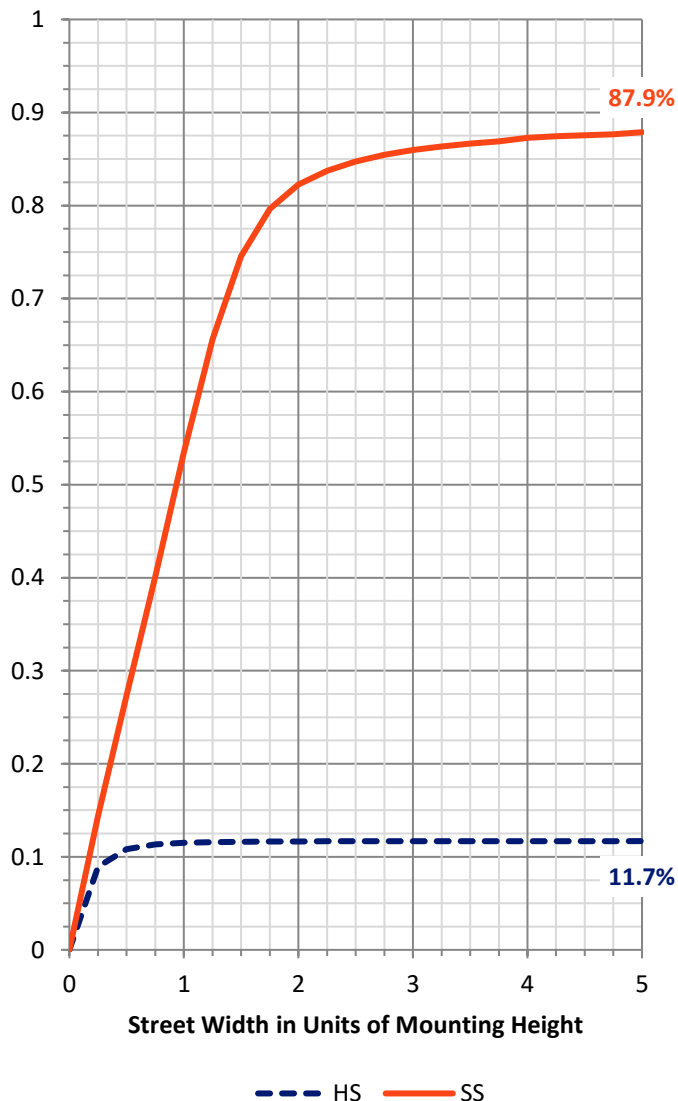
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3590.7	0.0	3590.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	26871.2	0.0	26871.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	30462.0	0.0	30462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.7	2.1
10°-20°	1409.1	4.6
20°-30°	1951.6	6.4
30°-40°	2721.2	8.9
40°-50°	4229.6	13.9
50°-60°	6790.2	22.3
60°-70°	7680.8	25.2
70°-80°	4511.0	14.8
80°-90°	524.7	1.7
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°	30462.0	100.0
0°-180°	30462.0	100.0

Coefficient of Utilization

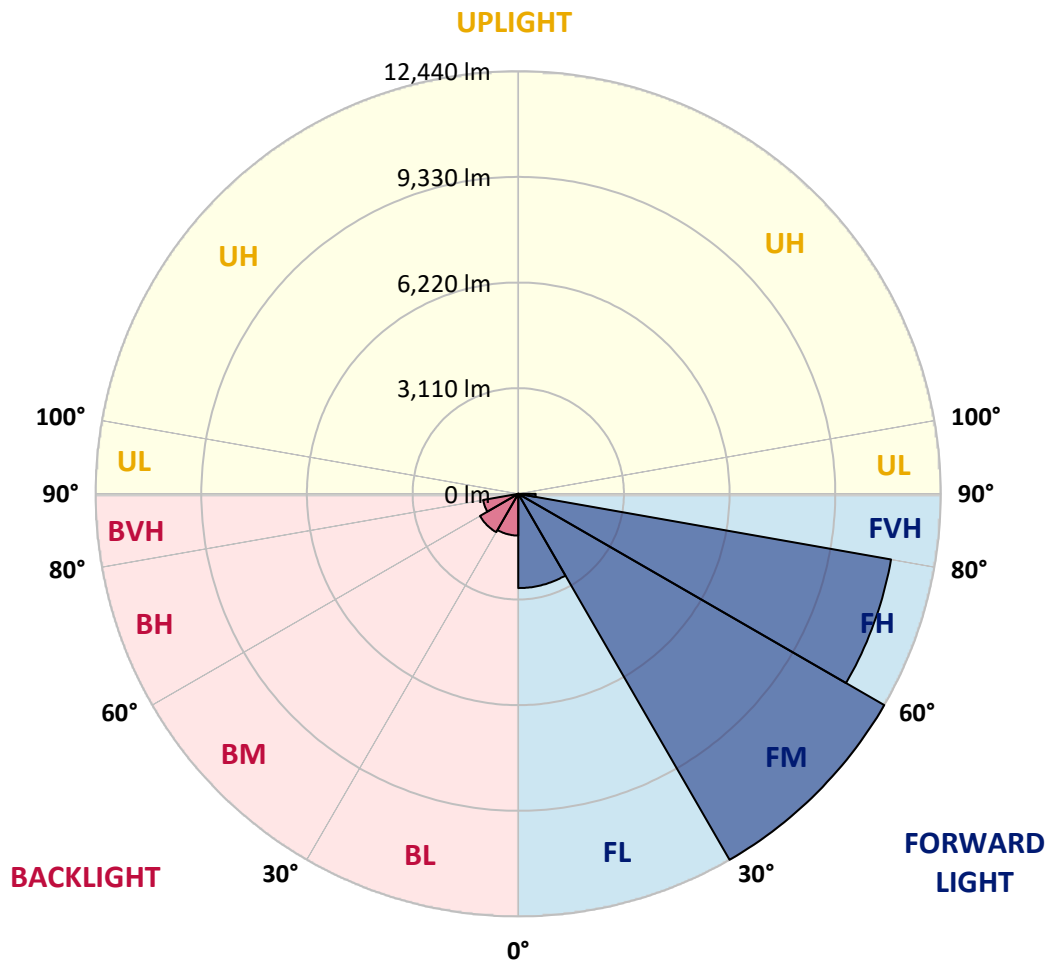


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2775.8	9.1			
FM (30°-60°)	12439.8	40.8			
FH (60°-80°)	11142.7	36.6			G4/12000
FVH (80°-90°)	512.9	1.7			G4/750
BL (0°-30°)	1228.6	4.0	B3/2500		
BM (30°-60°)	1301.2	4.3	B2/2500		
BH (60°-80°)	1049.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	11.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8
2.5°	7766.1	7746.8	7762.2	7795.8	7812.5	7812.5	7825.4	7809.9	7815.1	7777.7	7723.6
5°	7280.2	7250.5	7293.1	7387.2	7503.2	7602.4	7749.4	7826.7	7834.4	7835.7	7772.6
7.5°	6756.8	6729.8	6792.9	6903.8	7053.3	7237.6	7494.1	7718.4	7731.3	7852.5	7806.1
10°	6331.5	6312.1	6385.6	6504.2	6679.5	6885.7	7200.3	7512.2	7549.6	7817.7	7800.9
12.5°	5993.8	5978.3	6047.9	6184.5	6363.7	6591.9	6920.5	7282.7	7333.0	7739.0	7775.1
15°	5747.6	5745.0	5803.0	5934.5	6133.0	6345.7	6682.1	7070.1	7128.1	7654.0	7771.3
17.5°	5618.7	5622.5	5665.1	5777.2	5947.4	6158.8	6481.0	6890.9	6954.1	7577.9	7790.6
20°	5605.8	5609.6	5632.9	5696.0	5833.9	6020.8	6317.3	6740.1	6805.8	7521.2	7821.5
22.5°	5719.2	5716.6	5723.1	5716.6	5794.0	5935.8	6209.0	6624.1	6700.1	7483.8	7846.0
25°	5937.1	5933.2	5930.6	5882.9	5831.4	5907.4	6163.9	6558.3	6630.5	7456.8	7860.2
27.5°	6240.0	6237.4	6233.5	6154.9	6000.2	5952.5	6169.1	6533.8	6594.4	7434.8	7857.6
30°	6638.3	6656.3	6651.1	6541.6	6300.5	6090.4	6223.2	6521.0	6573.8	7392.3	7830.6
32.5°	7106.2	7142.2	7170.6	7053.3	6751.7	6363.7	6348.2	6535.1	6573.8	7360.1	7781.6
35°	7592.1	7638.5	7742.9	7701.7	7304.7	6774.9	6563.5	6620.2	6652.4	7378.1	7758.4
37.5°	8070.3	8125.7	8352.6	8472.5	8029.1	7318.8	6898.6	6830.3	6847.1	7487.7	7784.2
40°	8625.9	8709.7	9053.8	9247.2	8894.0	8047.1	7400.0	7191.2	7197.7	7728.7	7904.0
42.5°	9355.4	9441.8	9814.3	10117.2	9868.4	8967.4	8080.6	7742.9	7736.5	8179.9	8186.3
45°	10244.8	10335.1	10720.5	11056.9	10944.7	10057.9	8952.0	8548.5	8540.8	8891.4	8721.3
47.5°	11252.8	11341.8	11685.9	12032.6	12153.8	11331.4	10061.8	9648.0	9630.0	9880.0	9547.5
50°	12117.7	12175.7	12492.8	12959.4	13506.0	12896.3	11442.3	11044.0	11024.7	11193.5	10760.4
52.5°	12432.2	12465.7	12788.0	13441.5	14805.2	15015.4	13255.9	12742.9	12728.7	12802.2	12375.5
55°	11795.5	11856.1	12251.8	13221.1	15509.0	17410.3	15545.1	14846.5	14739.5	14581.0	14064.1
57.5°	10060.5	10157.2	10582.5	11871.5	15180.3	19310.2	18909.4	17226.0	17068.7	16099.4	15436.8
60°	7538.0	7656.6	8009.7	9400.5	13426.0	19987.0	22585.5	19877.4	19522.9	17308.5	16698.8
62.5°	5172.7	5232.0	5471.7	6377.9	9887.8	18878.4	25661.1	23428.5	22781.5	18623.2	18063.8
65°	3950.7	3971.4	4069.3	4381.2	5888.1	15335.0	26884.3	28114.0	27331.6	20195.8	19480.4
67.5°	3183.8	3167.0	3302.4	3748.4	3943.0	9355.4	25457.4	32546.8	32180.7	22298.1	20906.0
69°	2807.4	2784.2	2922.1	3440.3	3703.2	6184.5	22758.3	33553.5	33576.7	23407.9	21004.0
70°	2526.4	2541.9	2678.5	3257.3	3622.0	4854.3	20180.3	33297.0	33480.0	23823.0	20416.2
72.5°	1687.3	1728.5	2003.1	2704.3	3482.8	3673.6	12184.7	28572.9	29276.6	22888.5	17516.0
75°	951.3	982.2	1308.3	2039.2	3281.7	3498.3	6435.9	21050.4	21730.9	19140.1	13507.2
77.5°	466.6	483.4	739.9	1316.1	2744.2	3333.3	3650.4	14298.7	15075.9	12492.8	7639.8
80°	197.2	206.2	369.9	812.1	1961.8	3181.2	2710.7	8799.9	8896.6	4894.3	2035.3
82.5°	76.0	78.6	156.0	506.6	1246.4	2480.0	2267.3	4172.4	4071.9	921.6	464.0
85°	9.0	10.3	56.7	304.2	693.5	1276.1	1842.0	1798.1	1664.1	183.0	238.5
87.5°	0.0	0.0	3.9	92.8	206.2	598.1	957.7	746.3	672.8	59.3	123.7
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°	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8	7697.8
2.5°	7678.5	7665.6	7596.0	7495.4	7400.0	7281.5	7168.0	7099.7	7045.6	7009.5	7052.0
5°	7699.1	7642.4	7431.0	7160.3	6894.8	6595.7	6317.3	6081.4	5988.6	5885.5	5931.9
7.5°	7692.6	7585.7	7205.4	6723.3	6236.1	5732.1	5255.2	4887.8	4697.1	4510.1	4557.8
10°	7660.4	7480.0	6903.8	6189.7	5460.1	4735.7	4059.0	3544.7	3257.3	2996.9	3034.3
12.5°	7589.5	7338.2	6548.0	5578.7	4603.0	3647.8	2855.1	2196.4	1843.2	1687.3	1706.6
15°	7547.0	7200.3	6171.6	4960.0	3687.8	2540.6	1745.3	1298.0	1136.9	1085.3	1091.8
17.5°	7526.4	7067.5	5782.4	4252.4	2752.0	1617.7	1127.9	995.1	960.3	951.3	953.8
20°	7505.7	6933.4	5381.5	3552.4	1896.1	1087.9	926.8	888.1	875.2	863.6	866.2
22.5°	7470.9	6804.5	4951.0	2843.5	1278.7	883.0	835.3	797.9	770.8	756.6	759.2
25°	7428.4	6669.2	4511.4	2117.8	933.2	787.6	742.5	689.6	657.4	631.6	632.9
27.5°	7360.1	6502.9	4057.7	1541.6	783.7	705.1	644.5	586.5	532.3	502.7	502.7
30°	7264.7	6314.7	3553.7	1103.4	702.5	623.9	550.4	478.2	420.2	393.1	390.6
32.5°	7159.0	6118.8	3044.6	836.5	638.0	547.8	464.0	388.0	336.4	314.5	313.2
35°	7068.8	5907.4	2536.7	701.2	573.6	474.3	382.8	318.4	277.1	259.1	257.8
37.5°	7010.8	5696.0	2041.7	626.4	515.6	406.0	321.0	263.0	233.3	219.1	217.8
40°	7001.8	5538.8	1589.3	569.7	461.5	345.4	268.1	223.0	195.9	180.5	179.2
42.5°	7119.0	5448.5	1219.4	522.0	406.0	292.6	228.1	190.8	162.4	146.9	145.7
45°	7427.1	5476.9	938.4	479.5	350.6	247.5	193.3	158.5	132.8	121.2	118.6
47.5°	7989.1	5672.8	746.3	437.0	297.8	210.1	165.0	131.5	109.6	98.0	96.7
50°	8989.4	6133.0	623.9	390.6	248.8	179.2	136.6	107.0	88.9	78.6	77.3
52.5°	10317.0	6952.8	556.8	345.4	206.2	152.1	112.1	85.1	69.6	61.9	60.6
55°	11781.3	7945.3	513.0	296.5	168.9	126.3	88.9	67.0	54.1	47.7	45.1
57.5°	13210.8	8805.0	471.8	248.8	140.5	103.1	70.9	52.8	42.5	36.1	34.8
60°	14524.2	9595.2	424.1	199.8	114.7	81.2	55.4	41.2	33.5	27.1	27.1
62.5°	15930.5	10206.2	358.3	156.0	94.1	61.9	45.1	37.4	27.1	23.2	21.9
65°	17420.6	10659.9	281.0	121.2	73.5	46.4	37.4	38.7	21.9	16.8	15.5
67.5°	18521.4	10569.7	207.5	95.4	56.7	36.1	36.1	41.2	19.3	12.9	11.6
69°	18279.1	9836.2	174.0	82.5	49.0	30.9	33.5	41.2	18.0	11.6	10.3
70°	17576.6	9024.2	153.4	73.5	43.8	28.4	32.2	40.0	16.8	11.6	10.3
72.5°	14637.7	6796.8	119.9	55.4	34.8	23.2	27.1	34.8	16.8	11.6	9.0
75°	11010.5	4350.3	91.5	40.0	25.8	18.0	20.6	25.8	16.8	10.3	9.0
77.5°	5991.2	1568.7	65.7	27.1	18.0	14.2	14.2	19.3	15.5	7.7	5.2
80°	1540.3	394.4	41.2	18.0	14.2	10.3	9.0	12.9	9.0	1.3	0.0
82.5°	380.2	88.9	21.9	12.9	10.3	3.9	3.9	6.4	3.9	0.0	0.0
85°	208.8	43.8	14.2	9.0	5.2	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	107.0	12.9	3.9	2.6	1.3	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)