

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: P651018

Luminaire Tested: **GALN-SA7C-840-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40310.8 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

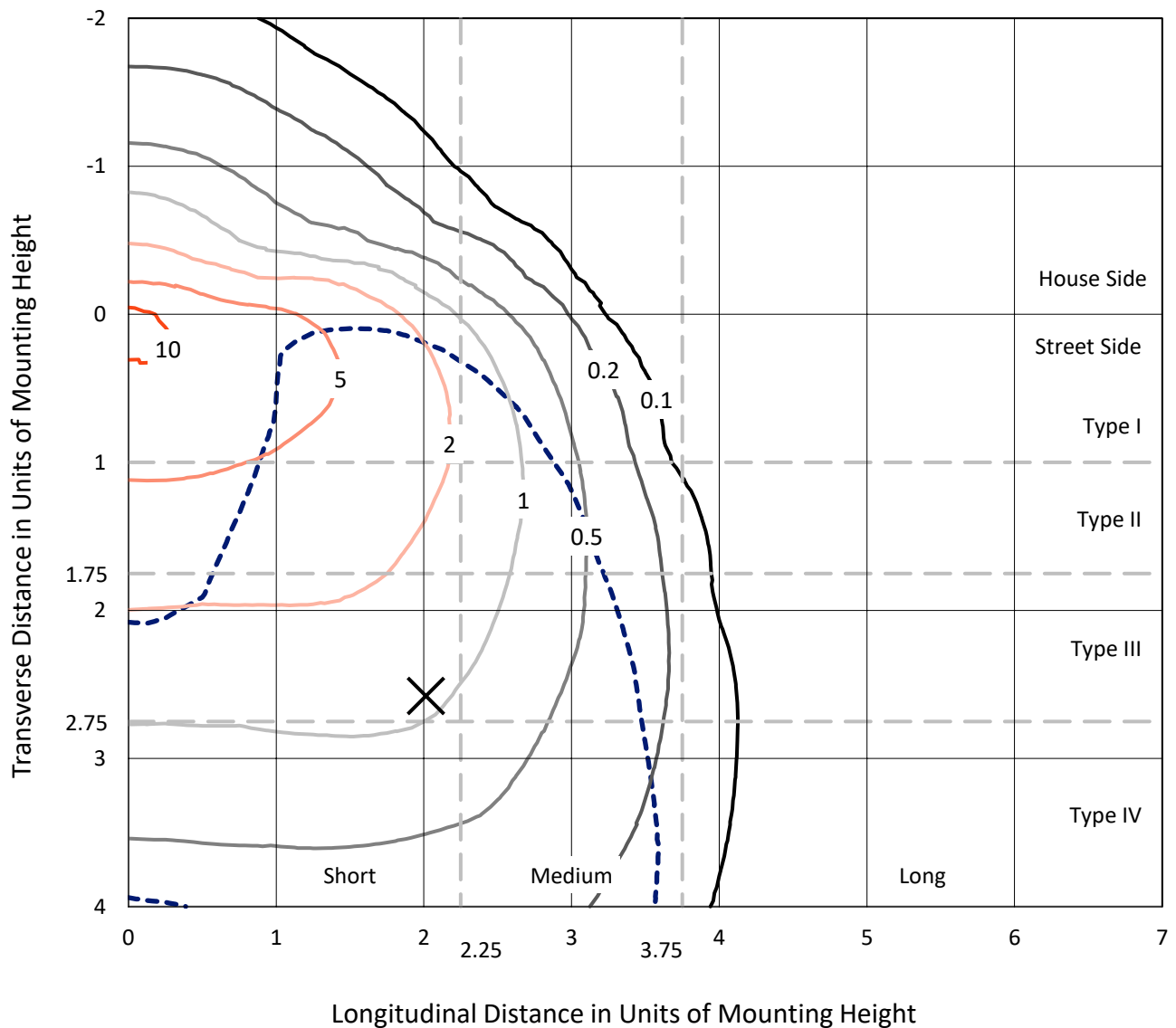
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

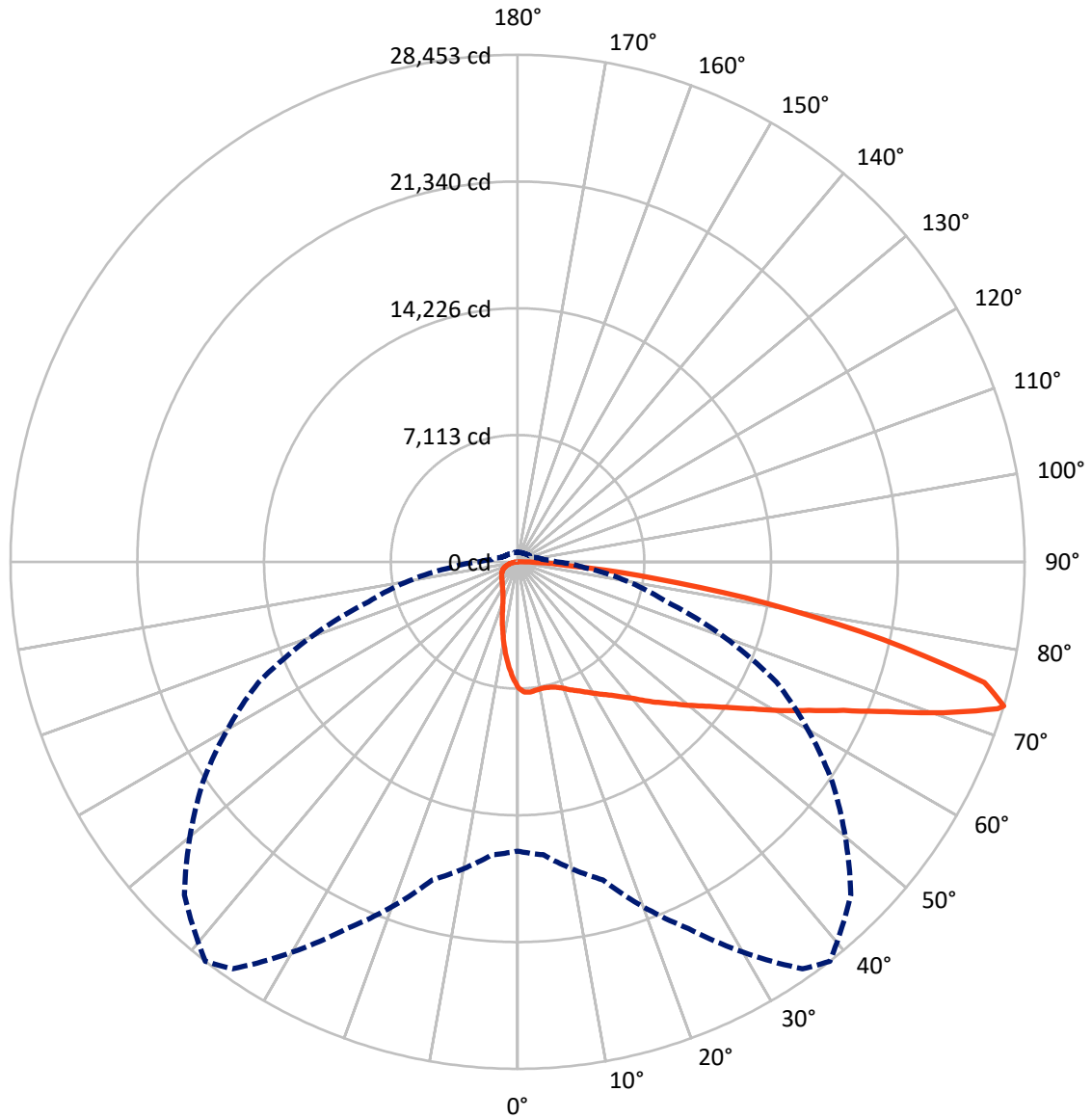
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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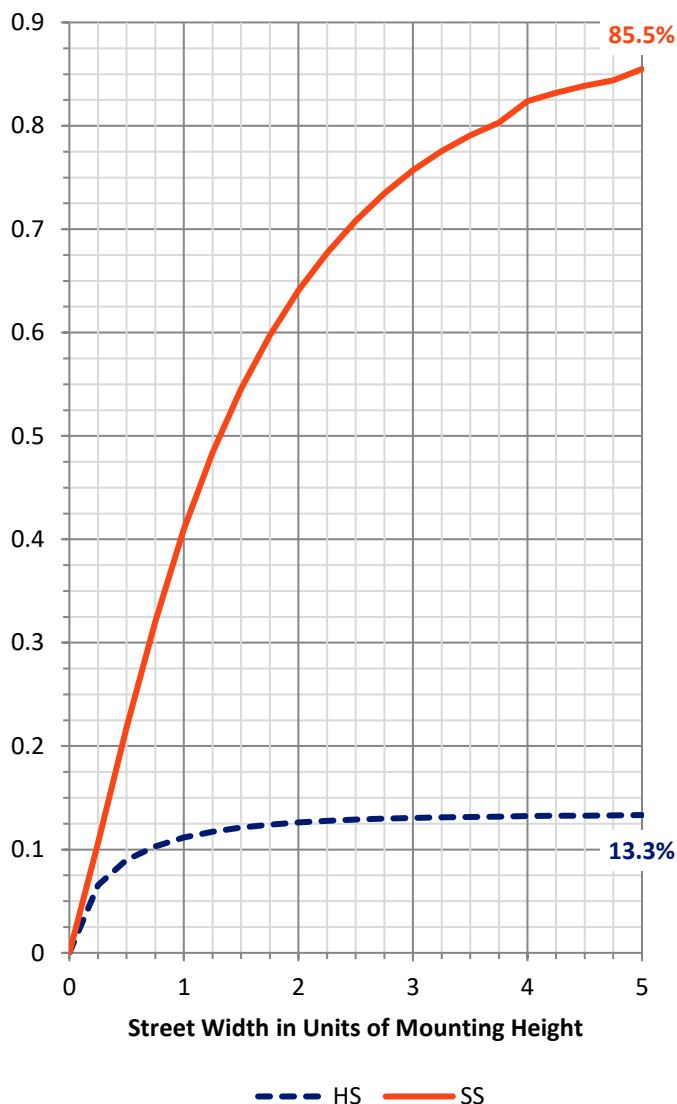
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5419.0	0.0	5419.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	34891.8	0.0	34891.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	40310.8	0.0	40310.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.2	1.5
10°-20°	1585.2	3.9
20°-30°	2468.5	6.1
30°-40°	3620.7	9.0
40°-50°	5370.8	13.3
50°-60°	7609.4	18.9
60°-70°	9652.8	23.9
70°-80°	8035.2	19.9
80°-90°	1350.0	3.3
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°	40310.8	100.0
0°-180°	40310.8	100.0

Coefficient of Utilization

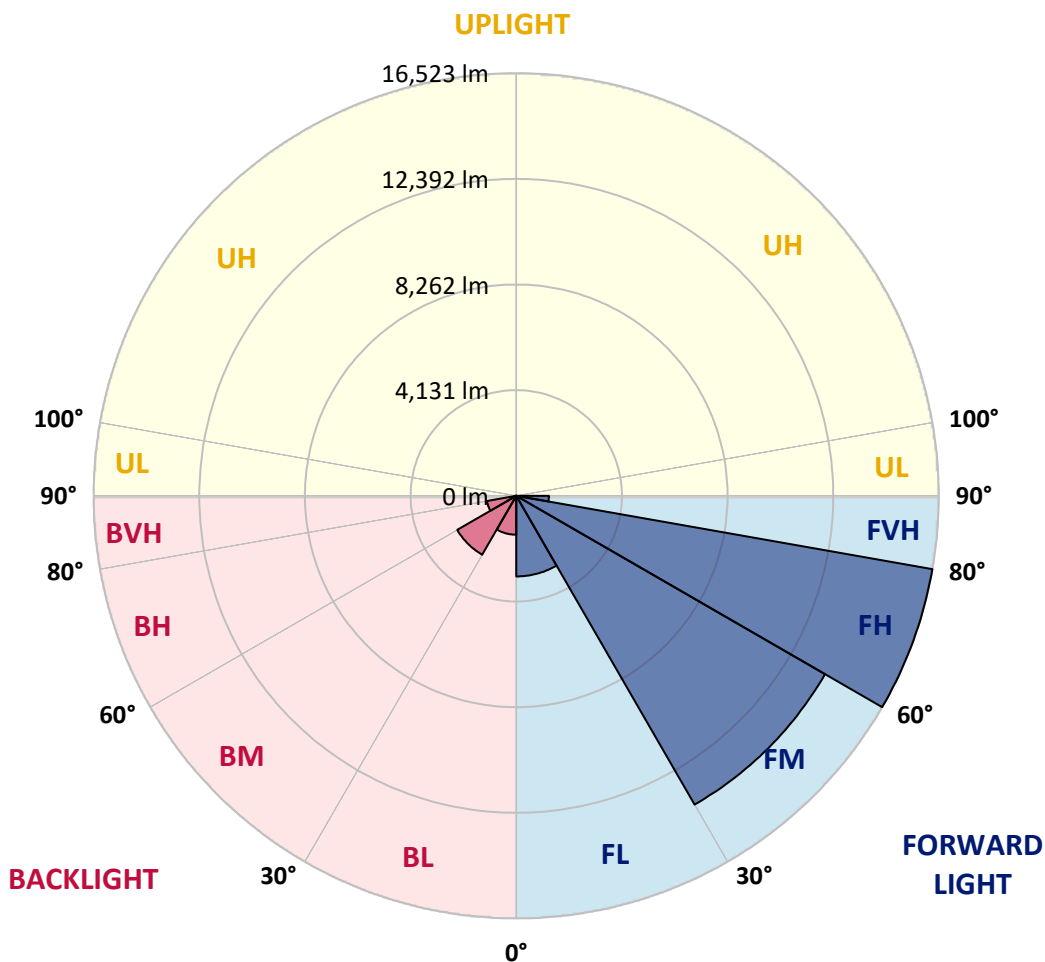


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3151.2	7.8			
FM (30°-60°)	13940.6	34.6			
FH (60°-80°)	16523.2	41.0			G5
FVH (80°-90°)	1276.8	3.2			G5
BL (0°-30°)	1520.6	3.8	B3/2500		
BM (30°-60°)	2660.4	6.6	B3/5000		
BH (60°-80°)	1164.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	73.2	0.2			G1/100
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°	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9
2.5°	7366.5	7402.9	7384.7	7359.7	7343.7	7327.8	7305.0	7239.0	7186.7	7129.7	7040.9
5°	7421.2	7443.9	7428.0	7396.1	7359.7	7343.7	7300.5	7213.9	7129.7	7034.1	6902.1
7.5°	7389.3	7398.4	7380.1	7341.4	7309.6	7279.9	7229.9	7134.3	7031.9	6915.7	6742.7
10°	7275.4	7309.6	7309.6	7277.7	7245.8	7229.9	7179.8	7088.8	6995.4	6863.4	6658.5
12.5°	7182.1	7218.5	7248.1	7239.0	7236.7	7236.7	7198.0	7129.7	7020.5	6895.3	6651.7
15°	7118.3	7161.6	7225.4	7261.8	7284.5	7291.4	7275.4	7216.2	7104.7	6959.0	6679.0
17.5°	7104.7	7157.1	7273.1	7352.8	7412.0	7409.7	7405.2	7323.3	7200.3	7050.0	6713.1
20°	7166.2	7234.5	7396.1	7521.3	7607.8	7591.9	7566.8	7459.8	7316.4	7147.9	6745.0
22.5°	7350.5	7421.2	7598.7	7735.3	7819.4	7819.4	7744.3	7603.2	7450.7	7261.8	6788.3
25°	7614.6	7692.0	7880.9	8019.8	8058.5	8028.9	7953.8	7783.0	7607.8	7425.7	6879.3
27.5°	7937.9	8031.2	8206.5	8322.5	8311.2	8288.4	8211.0	7992.5	7817.2	7651.0	7034.1
30°	8340.8	8409.1	8591.2	8618.5	8577.5	8573.0	8463.7	8245.2	8081.3	7953.8	7255.0
32.5°	8720.9	8782.4	8928.1	8939.5	8866.7	8875.7	8773.3	8573.0	8479.6	8434.1	7626.0
35°	9123.8	9155.7	9280.9	9267.3	9219.5	9212.7	9171.7	8980.5	9010.1	9092.0	8151.8
37.5°	9460.7	9524.5	9595.1	9606.5	9604.2	9626.9	9654.3	9563.2	9734.0	9991.2	8841.6
40°	9770.4	9825.0	9929.7	9966.1	10054.9	10100.5	10193.8	10196.0	10589.9	11013.3	9690.7
42.5°	9979.8	10073.2	10268.9	10335.0	10551.2	10687.8	10826.6	10974.6	11546.0	12090.0	10692.3
45°	10161.9	10284.8	10610.4	10815.3	11108.9	11275.1	11568.7	11878.4	12700.1	13412.6	11709.9
47.5°	10437.4	10546.6	10920.0	11281.9	11725.8	11917.1	12356.4	12818.5	13893.0	14673.8	12684.2
50°	10819.8	10885.8	11266.0	11855.6	12422.4	12668.2	13248.7	13915.7	15167.8	15919.0	13540.1
52.5°	11309.3	11336.5	11639.3	12424.7	13171.3	13476.4	14245.8	15024.3	16283.2	17000.2	14218.5
55°	11887.5	11841.9	12078.7	13027.9	14027.3	14425.7	15252.0	16146.6	17537.5	17874.4	14712.5
57.5°	12458.8	12388.3	12577.2	13760.9	15083.5	15563.9	16526.7	17303.1	18657.5	18691.6	15058.5
60°	13064.3	13012.0	13237.3	14621.4	16378.8	16947.9	17837.9	18502.7	19741.0	19260.8	15113.1
62.5°	13685.8	13601.6	13922.6	15588.9	17837.9	18354.7	19217.5	19777.5	20804.2	19472.4	14587.2
65°	14289.1	14250.3	14746.6	16738.5	19499.8	20087.1	20924.8	21305.0	21655.5	19153.8	13282.9
67.5°	14931.0	15008.4	15800.6	18272.7	21666.9	22404.5	23308.2	22950.8	21899.1	17644.5	11186.3
70°	15909.9	15959.9	17184.7	20282.8	24460.1	25350.2	25787.2	23535.9	20724.5	14778.5	8409.1
72.5°	16331.0	16551.8	18420.8	22393.1	27633.4	28177.5	26620.4	22231.5	17264.3	10039.0	4418.5
73°	16237.7	16501.8	18477.7	22714.1	27881.5	28452.9	26442.8	21560.0	16048.7	8645.8	3787.9
75°	15074.4	15400.0	17737.8	22445.4	27398.9	27057.5	23588.2	18375.3	10844.9	3931.3	1725.6
77.5°	11894.3	11987.6	14054.6	18124.8	21575.9	20943.0	17653.6	11484.5	4429.9	1461.5	978.8
80°	5966.5	6310.2	7921.9	10382.7	14427.9	14220.7	11143.1	5431.5	1846.2	858.2	648.7
82.5°	2870.6	3114.1	3858.5	5062.7	7972.0	7783.0	5518.1	2968.5	1172.4	500.8	382.4
85°	1848.4	2030.6	2456.2	2415.3	3278.0	3130.0	2479.0	2246.8	694.3	261.8	266.3
87.5°	1220.1	1336.3	1602.6	1281.6	1192.9	1079.0	1095.0	1265.7	136.6	100.2	36.4
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°	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9	7081.9
2.5°	7004.5	6974.9	6877.0	6781.4	6690.4	6603.9	6546.9	6471.8	6421.8	6435.4	6455.9
5°	6829.3	6763.2	6590.2	6421.8	6262.4	6073.4	5921.0	5798.0	5704.7	5670.5	5663.7
7.5°	6644.8	6533.3	6285.2	5996.1	5725.2	5490.7	5219.8	5085.5	4928.4	4873.8	4855.6
10°	6533.3	6383.1	6034.8	5631.8	5224.4	4835.1	4541.5	4302.4	4086.2	4045.2	4024.7
12.5°	6501.4	6303.4	5834.4	5315.5	4773.6	4295.6	3860.8	3546.7	3337.3	3289.4	3218.8
15°	6483.3	6237.4	5647.8	4996.7	4309.3	3726.5	3269.0	2902.5	2711.2	2583.7	2586.0
17.5°	6467.3	6162.3	5438.3	4648.5	3908.6	3237.1	2731.7	2401.6	2226.3	2158.0	2151.2
20°	6444.5	6073.4	5197.0	4282.0	3451.0	2790.9	2333.4	2087.4	1969.1	1912.2	1909.9
22.5°	6435.4	5987.0	4960.3	3908.6	3045.8	2447.1	2069.3	1896.3	1821.1	1782.4	1782.4
25°	6458.2	5925.5	4712.2	3553.5	2686.2	2153.5	1887.1	1768.8	1725.6	1705.0	1698.2
27.5°	6528.8	5898.2	4466.3	3198.3	2356.1	1953.1	1764.2	1682.3	1650.4	1634.5	1636.8
30°	6663.1	5895.9	4225.0	2847.8	2110.2	1800.7	1666.4	1609.4	1584.4	1575.3	1573.0
32.5°	6879.3	5946.0	3988.3	2558.7	1903.1	1673.2	1575.3	1534.3	1522.9	1516.1	1513.8
35°	7245.8	6087.2	3753.8	2294.6	1743.7	1559.4	1488.7	1468.3	1452.3	1459.2	1461.5
37.5°	7739.8	6330.7	3530.7	2087.4	1623.0	1475.1	1415.9	1397.7	1388.6	1395.5	1402.3
40°	8402.3	6681.2	3344.1	1921.3	1536.6	1404.6	1352.2	1336.3	1327.2	1338.5	1340.8
42.5°	9133.0	7086.5	3189.2	1791.5	1466.0	1345.3	1295.3	1277.1	1270.2	1277.1	1279.3
45°	9884.2	7557.7	3109.6	1698.2	1406.8	1302.1	1249.7	1229.3	1213.3	1208.8	1215.6
47.5°	10624.0	7967.5	3107.3	1641.3	1359.1	1263.4	1206.5	1183.7	1163.3	1151.8	1149.6
50°	11227.3	8293.0	3161.9	1616.2	1318.0	1220.1	1163.3	1140.5	1113.1	1090.4	1095.0
52.5°	11682.6	8504.7	3187.0	1604.9	1295.3	1174.6	1117.7	1097.3	1065.4	1035.8	1035.8
55°	11976.2	8554.7	3125.5	1593.5	1277.1	1126.9	1065.4	1047.1	1015.3	985.7	985.7
57.5°	12076.3	8400.0	2904.7	1566.2	1258.9	1085.8	1013.0	997.1	972.0	942.4	937.9
60°	11844.2	7876.4	2517.7	1484.2	1222.4	1042.6	956.1	949.2	940.2	915.1	912.8
62.5°	10949.6	6765.5	2096.6	1377.2	1161.0	997.1	903.7	915.1	922.0	908.3	906.0
65°	9460.7	5493.0	1791.5	1229.3	1079.0	933.3	846.8	876.4	894.7	894.7	890.1
67.5°	7673.8	4218.2	1509.3	1101.8	976.6	846.8	783.1	805.8	819.5	814.9	826.4
70°	5454.3	2856.9	1229.3	956.1	846.8	748.9	701.1	701.1	692.1	687.5	687.5
72.5°	2645.2	1632.2	997.1	799.0	721.7	639.7	601.0	585.0	566.8	564.6	553.2
73°	2210.4	1463.8	951.5	769.4	692.1	623.8	580.5	555.5	544.0	535.0	532.7
75°	1345.3	1110.9	794.5	648.7	589.6	537.2	498.5	475.8	464.4	457.6	455.3
77.5°	885.5	828.6	616.9	496.3	450.7	418.9	402.9	380.1	373.3	364.2	364.2
80°	660.2	632.9	441.6	350.5	323.3	295.9	291.4	286.9	268.6	257.3	252.7
82.5°	425.7	450.7	300.5	234.5	204.9	182.1	184.4	191.2	173.0	157.1	152.6
85°	302.8	325.6	182.1	107.0	86.5	75.1	84.3	75.1	77.4	61.5	50.0
87.5°	50.0	86.5	31.9	13.6	6.8	4.5	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)