

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: P269260

Luminaire Tested: **GLEON-AF-04-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-T2-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22457.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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: 25 FT

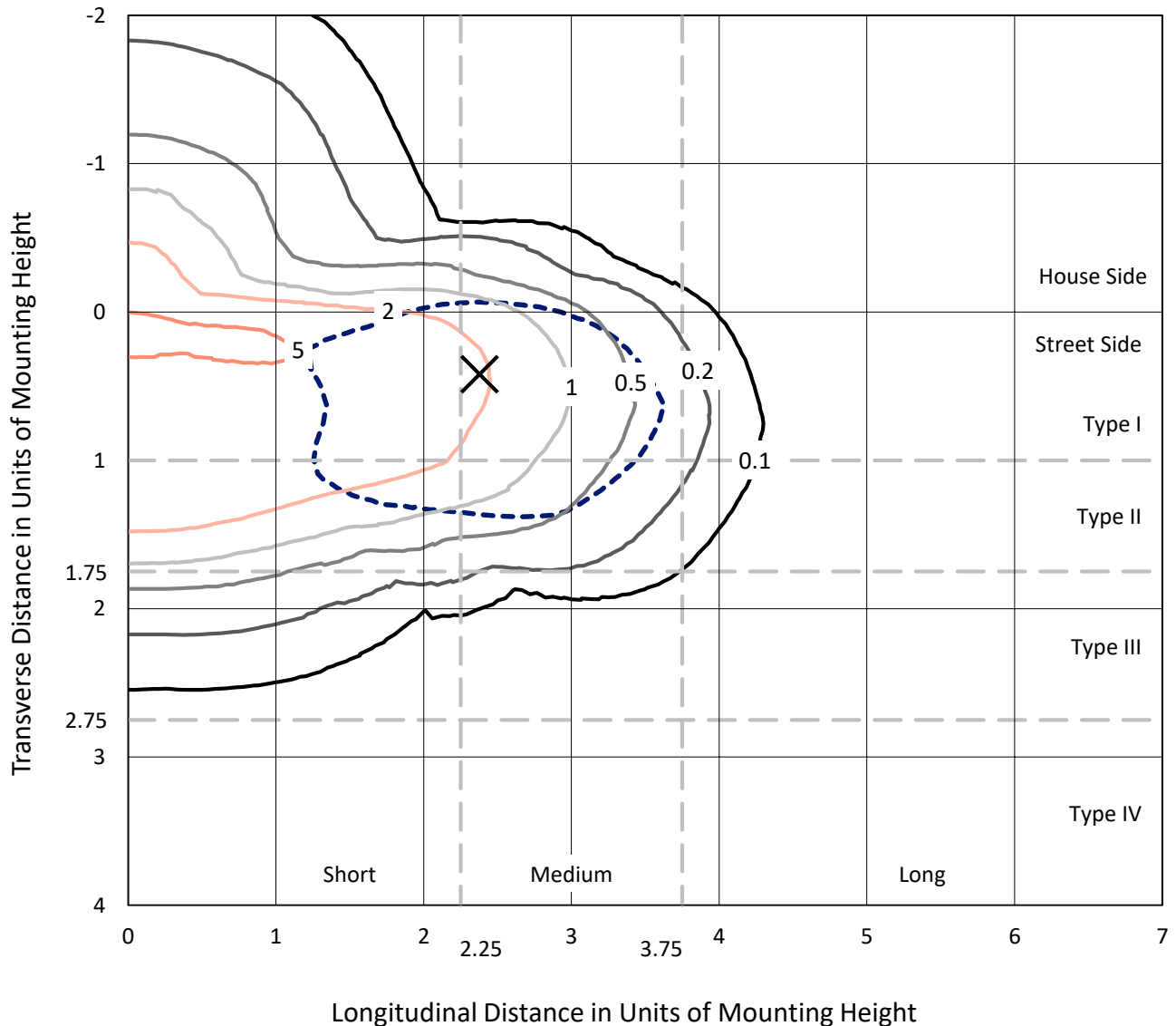


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Iso-Footcandle Lines of Horizontal Illumination

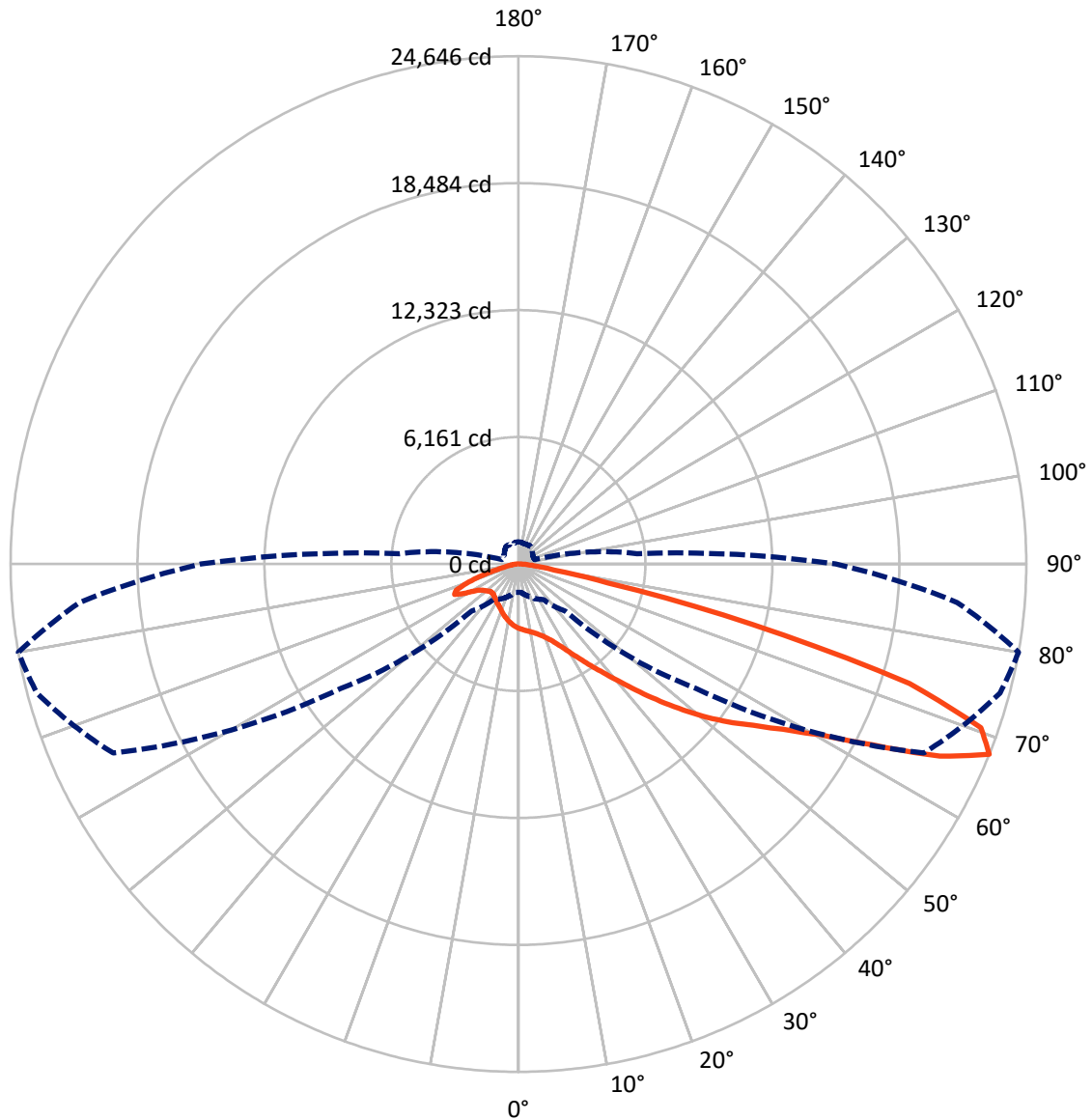
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4135.8	0.0	4135.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	18321.5	0.0	18321.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	22457.3	0.0	22457.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	1.3
10°-20°	829.1	3.7
20°-30°	1372.3	6.1
30°-40°	2244.7	10.0
40°-50°	3624.4	16.1
50°-60°	5232.5	23.3
60°-70°	5774.4	25.7
70°-80°	2661.6	11.9
80°-90°	430.5	1.9
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°	22457.3	100.0
0°-180°	22457.3	100.0



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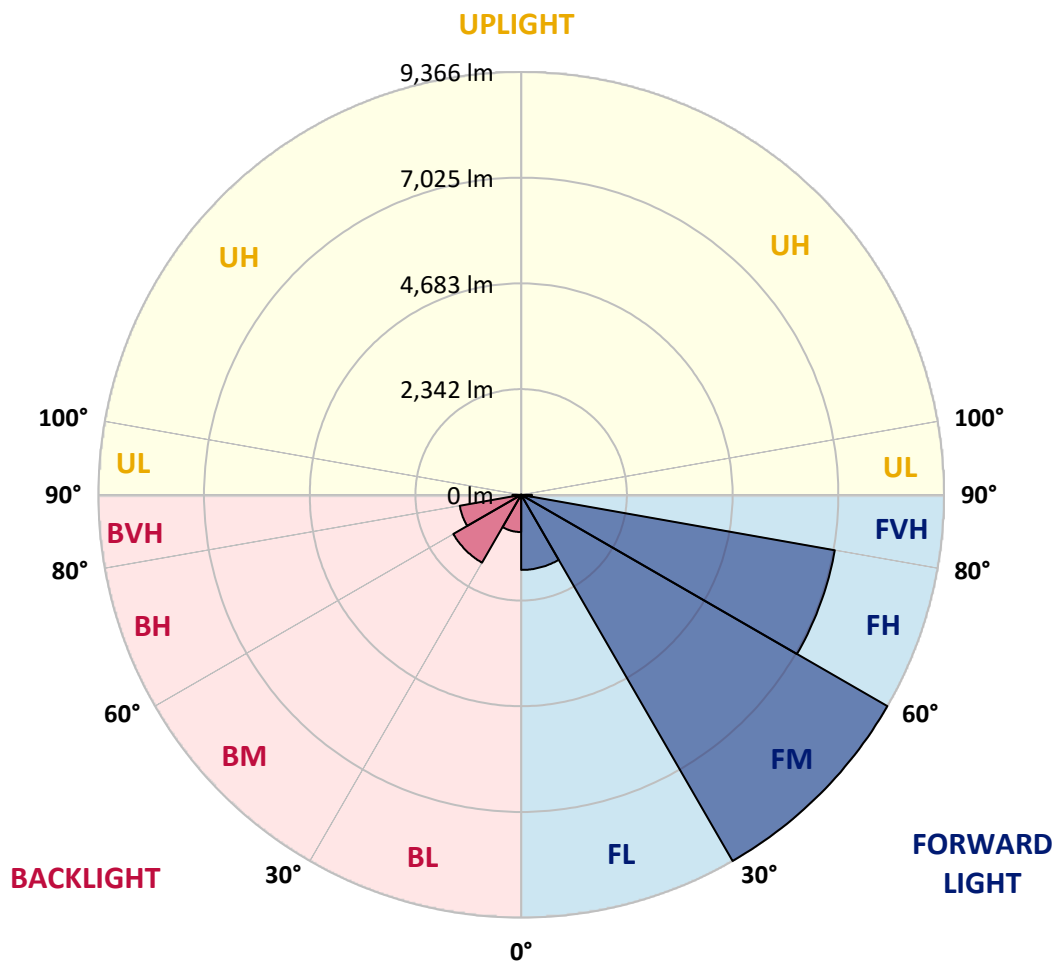
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1664.0	7.4			
FM (30°-60°)	9366.4	41.7			
FH (60°-80°)	7054.4	31.4			G3/7500
FVH (80°-90°)	236.7	1.1			G3/500
BL (0°-30°)	825.1	3.7	B2/1000		
BM (30°-60°)	1735.2	7.7	B2/2500		
BH (60°-80°)	1381.6	6.2	B3/2500		G3/2500
BVH (80°-90°)	193.8	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	3412.9	3393.1	3396.3	3390.8	3374.3	3345.5	3314.6	3258.2	3199.6	3168.6	3144.2
5°	3698.2	3692.7	3684.9	3667.2	3625.2	3565.6	3491.4	3391.9	3284.7	3228.2	3174.2
7.5°	3911.6	3908.3	3898.4	3887.2	3846.4	3774.5	3662.7	3521.3	3365.4	3288.1	3204.0
10°	3929.2	3934.8	3942.5	3972.3	3978.0	3939.2	3825.3	3653.9	3449.4	3349.9	3242.7
12.5°	3778.9	3791.0	3820.9	3897.1	3978.0	4025.5	3966.8	3793.3	3547.9	3427.4	3291.3
15°	3579.8	3586.6	3623.0	3728.1	3872.9	4019.9	4075.3	3947.0	3675.0	3526.8	3364.3
17.5°	3494.8	3498.1	3523.5	3593.2	3728.1	3938.1	4135.9	4113.9	3830.8	3650.6	3453.9
20°	3451.6	3459.5	3495.8	3564.5	3649.5	3833.1	4144.9	4294.1	4016.6	3805.4	3566.6
22.5°	3574.4	3571.0	3584.2	3618.6	3690.4	3801.0	4138.2	4479.8	4253.1	4004.5	3713.7
25°	3860.7	3872.9	3849.6	3811.0	3834.1	3911.6	4173.5	4681.1	4549.5	4259.9	3906.0
27.5°	4268.7	4256.4	4222.3	4131.6	4084.1	4117.2	4290.8	4897.7	4917.6	4595.9	4160.3
30°	4675.5	4665.5	4632.4	4521.9	4424.5	4396.9	4518.6	5146.5	5356.6	4999.4	4472.1
32.5°	5097.9	5086.8	5055.8	4945.3	4828.1	4764.0	4842.5	5433.9	5873.9	5481.5	4839.2
35°	5618.5	5597.6	5532.3	5378.7	5263.7	5213.9	5250.5	5795.4	6471.0	6052.1	5284.6
37.5°	6108.4	6140.5	6074.1	5861.8	5712.6	5694.9	5735.8	6236.7	7114.4	6689.9	5796.7
40°	6600.3	6605.9	6546.2	6372.5	6219.0	6190.2	6292.9	6771.8	7874.1	7452.8	6419.1
42.5°	7108.9	7120.0	7019.4	6859.1	6746.4	6751.8	6869.0	7398.6	8745.2	8351.6	7135.4
45°	7711.5	7728.1	7617.4	7407.5	7304.6	7511.4	7462.7	8101.8	9700.4	9373.2	7958.1
47.5°	8341.8	8367.2	8283.0	8086.3	7958.1	8242.2	8056.4	8881.3	10728.6	10468.8	8861.3
50°	8685.5	8722.0	8803.7	8789.5	8761.8	8714.3	8718.7	9717.1	11788.8	11609.8	9790.0
52.5°	8500.9	8499.8	8798.3	9160.8	9547.8	9576.7	9525.7	10598.2	12779.5	12725.3	10664.5
55°	7656.3	7713.7	8165.9	8867.9	9924.8	10584.9	10735.3	11607.5	13752.4	13815.5	11552.4
57.5°	6249.9	6297.4	6907.6	7886.2	9416.4	11184.1	12455.5	13074.7	14840.3	15134.4	12734.2
60°	4238.8	4296.4	4943.1	6118.4	8047.6	10850.3	14092.9	15692.8	16142.7	16811.6	14392.6
62.5°	2490.9	2542.8	3070.1	3859.6	5666.1	9299.2	14811.6	19417.5	18211.2	19342.2	16922.1
65°	1714.8	1750.2	2006.6	2402.4	3255.9	6263.2	13920.5	21989.0	21394.3	22477.7	19855.2
67.5°	1379.7	1375.3	1578.9	1848.5	2096.1	3229.4	10526.2	21698.3	24193.6	24645.8	21377.7
70°	1136.5	1132.1	1270.4	1493.6	1675.0	1818.7	5733.6	18310.7	23623.1	23806.6	19975.8
72.5°	950.8	955.3	1043.7	1209.5	1374.2	1369.8	2519.7	12881.2	18583.9	19853.0	15923.7
75°	802.6	804.9	863.5	980.7	1115.5	1103.4	1366.5	6978.5	10802.7	11686.1	8827.0
77.5°	683.3	685.4	723.0	788.4	884.6	880.1	997.3	3014.9	4506.3	4451.1	3019.4
80°	609.2	609.2	626.8	639.1	692.1	672.2	739.7	1448.2	1904.9	1759.1	1205.0
82.5°	477.5	479.9	588.2	583.8	545.0	519.6	519.6	853.5	1009.3	933.1	705.3
85°	268.7	267.5	379.3	457.6	479.9	366.0	362.6	477.5	549.5	484.2	341.6
87.5°	115.1	117.1	175.8	203.5	271.9	227.7	224.4	246.6	279.7	242.2	158.1
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°	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0	3120.0
2.5°	3121.2	3092.3	3029.4	2950.8	2880.1	2833.7	2791.7	2730.8	2734.1	2692.1	2661.1
5°	3118.8	3059.2	2913.3	2739.7	2572.7	2452.3	2361.6	2279.7	2259.9	2221.1	2198.0
7.5°	3121.2	3023.8	2778.4	2500.8	2294.1	2141.5	2064.1	2020.9	2011.0	1997.8	1998.9
10°	3128.7	2991.7	2630.1	2277.6	2060.8	1960.2	1941.3	1954.7	1970.2	1974.6	1975.7
12.5°	3146.6	2963.0	2467.6	2078.5	1914.8	1883.9	1915.9	1961.3	1991.2	2005.6	2004.5
15°	3186.3	2941.0	2311.8	1922.6	1834.2	1850.8	1910.4	1974.6	2017.8	2037.5	2038.8
17.5°	3229.4	2908.8	2151.5	1803.2	1774.4	1816.6	1890.6	1965.8	2018.9	2040.9	2045.4
20°	3285.8	2868.9	1983.4	1713.6	1718.1	1765.6	1835.2	1910.4	1969.1	1987.9	1996.8
22.5°	3359.9	2825.9	1836.3	1640.7	1654.0	1690.4	1744.6	1809.8	1860.7	1869.6	1877.3
25°	3459.5	2779.4	1719.1	1574.4	1579.8	1600.9	1637.4	1676.1	1711.5	1701.5	1709.2
27.5°	3593.2	2739.7	1631.9	1513.6	1503.7	1508.1	1526.8	1538.9	1557.8	1530.2	1533.4
30°	3750.2	2696.5	1564.4	1460.5	1432.8	1425.2	1429.6	1436.2	1450.6	1412.9	1407.5
32.5°	3932.6	2644.6	1501.3	1414.0	1375.3	1359.9	1362.1	1379.7	1435.0	1411.9	1399.6
35°	4144.9	2586.0	1435.0	1363.2	1336.7	1314.5	1312.3	1367.6	1532.4	1518.0	1506.8
37.5°	4393.6	2527.4	1368.7	1305.6	1307.9	1283.6	1275.9	1338.8	1551.2	1494.8	1487.1
40°	4709.9	2496.4	1312.3	1245.0	1272.4	1269.2	1253.8	1285.8	1427.2	1324.6	1311.3
42.5°	5101.1	2500.8	1270.4	1179.7	1230.5	1265.9	1241.5	1242.6	1293.5	1216.1	1204.0
45°	5584.4	2552.9	1240.5	1127.7	1183.0	1262.6	1237.1	1219.4	1223.9	1183.0	1176.3
47.5°	6148.2	2660.1	1219.4	1084.6	1137.7	1250.4	1236.1	1212.8	1202.9	1180.7	1175.3
50°	6775.0	2815.9	1204.0	1043.7	1096.7	1230.5	1237.1	1206.2	1195.1	1186.3	1183.0
52.5°	7390.9	2994.0	1180.7	1008.3	1064.8	1206.2	1240.5	1199.5	1187.4	1180.7	1177.5
55°	8077.4	3216.1	1145.3	978.4	1038.1	1175.3	1240.5	1189.6	1176.3	1177.5	1176.3
57.5°	9005.0	3575.4	1103.4	953.0	1006.1	1137.7	1219.4	1178.5	1162.0	1163.0	1164.2
60°	10454.5	4209.0	1052.5	927.6	966.2	1093.4	1190.8	1154.2	1137.7	1142.0	1143.2
62.5°	12586.1	5138.8	986.2	890.0	924.3	1045.8	1150.9	1123.3	1106.7	1117.8	1117.8
65°	14801.6	5959.1	904.4	842.5	880.1	994.0	1101.1	1084.6	1067.9	1093.4	1092.2
67.5°	15397.5	5775.7	822.6	790.5	835.9	936.5	1041.5	1032.6	1023.8	1067.9	1065.7
70°	13678.3	4636.8	747.4	737.4	787.2	874.5	977.4	977.4	971.7	1004.9	997.3
72.5°	10421.2	3288.1	675.5	681.0	731.8	807.0	907.6	915.5	906.6	923.2	916.5
75°	5578.8	1881.7	603.7	619.1	663.4	738.5	830.4	837.9	832.5	831.4	834.7
77.5°	1854.1	919.9	528.5	552.7	591.4	667.8	749.5	761.8	748.5	746.3	745.1
80°	825.9	578.1	445.6	477.5	511.9	587.0	664.4	674.4	660.1	679.9	654.5
82.5°	530.7	380.3	357.0	392.5	425.6	506.4	579.3	581.6	568.3	660.1	562.8
85°	257.6	235.4	268.7	300.8	329.5	397.9	479.9	481.0	447.7	408.0	393.5
87.5°	128.3	137.1	179.1	207.9	222.2	273.1	349.4	342.8	328.4	298.4	275.3
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)