

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: P269419

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269419
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-06-LED-E1-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24524.3 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

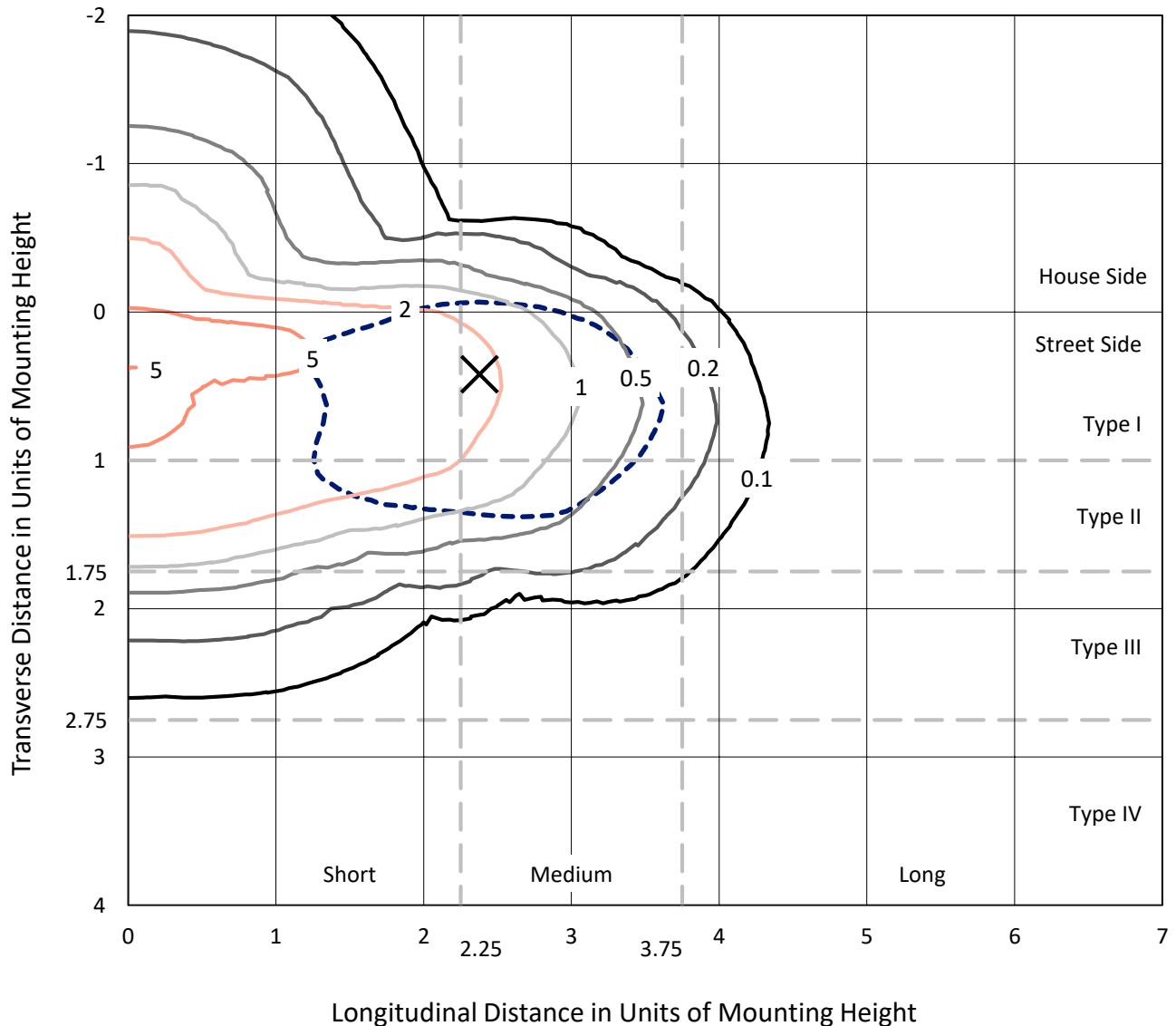
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

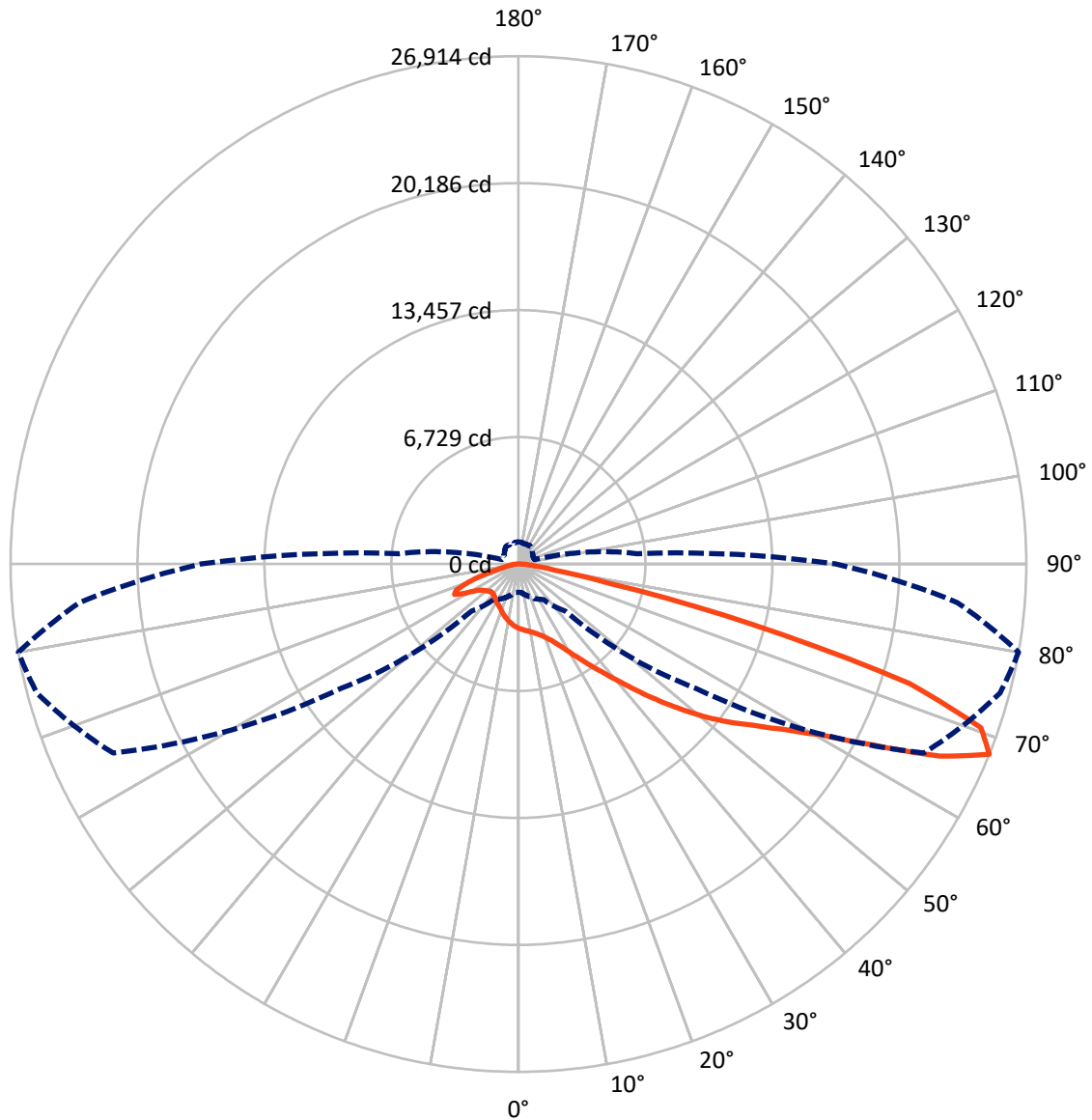
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	4516.4	0.0	4516.4
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	20007.8	0.0	20007.8
	% Fixture	81.6	0.0	81.6
Total	Lumens	24524.3	0.0	24524.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	1.3
10°-20°	905.4	3.7
20°-30°	1498.6	6.1
30°-40°	2451.3	10.0
40°-50°	3957.9	16.1
50°-60°	5714.1	23.3
60°-70°	6305.9	25.7
70°-80°	2906.6	11.9
80°-90°	470.1	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°	24524.3	100.0
0°-180°	24524.3	100.0



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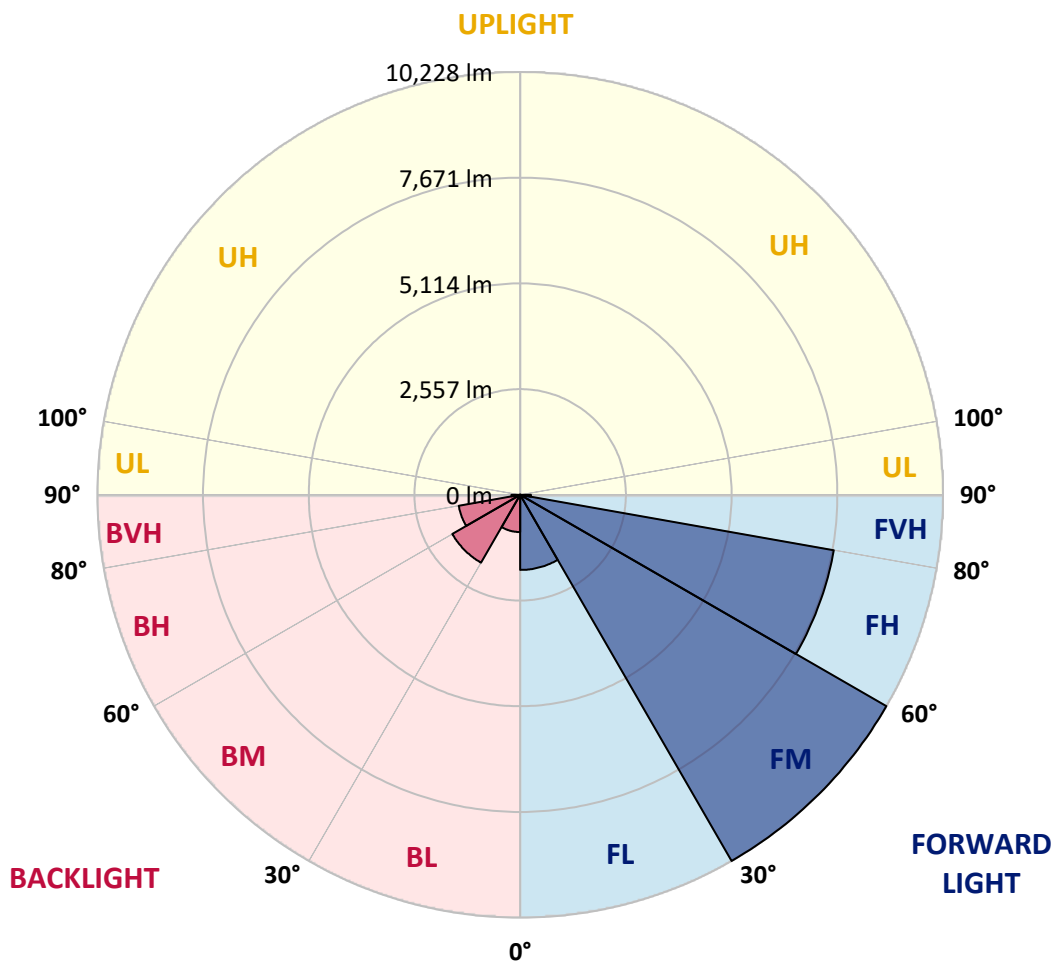
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.2	7.4			
FM (30°-60°)	10228.5	41.7			
FH (60°-80°)	7703.7	31.4			G4/12000
FVH (80°-90°)	258.5	1.1			G3/500
BL (0°-30°)	901.1	3.7	B2/1000		
BM (30°-60°)	1894.9	7.7	B2/2500		
BH (60°-80°)	1508.8	6.2	B3/2500		G3/2500
BVH (80°-90°)	211.6	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1
2.5°	3727.1	3705.4	3709.0	3703.0	3684.8	3653.4	3619.6	3558.0	3494.0	3460.2	3433.7
5°	4038.6	4032.5	4024.0	4004.7	3958.9	3893.8	3812.8	3704.2	3587.0	3525.5	3466.3
7.5°	4271.6	4267.9	4257.1	4245.0	4200.4	4122.0	4000.0	3845.5	3675.1	3590.6	3498.9
10°	4290.9	4297.0	4305.3	4337.9	4344.1	4301.8	4177.4	3990.4	3767.0	3658.3	3541.2
12.5°	4126.8	4140.0	4172.5	4255.9	4344.1	4395.9	4331.9	4142.4	3874.4	3742.8	3594.3
15°	3909.5	3916.6	3956.4	4071.2	4229.3	4389.8	4450.4	4310.2	4013.2	3851.5	3674.0
17.5°	3816.4	3820.0	3847.8	3923.8	4071.2	4300.5	4516.7	4492.6	4183.4	3986.7	3771.8
20°	3769.4	3777.8	3817.6	3892.4	3985.5	4185.9	4526.3	4689.3	4386.3	4155.6	3895.0
22.5°	3903.3	3899.7	3914.3	3951.6	4030.2	4150.9	4519.2	4892.2	4644.6	4372.9	4055.5
25°	4216.0	4229.3	4204.0	4161.8	4187.1	4271.6	4557.7	5112.0	4968.3	4652.0	4265.5
27.5°	4661.6	4648.3	4610.9	4511.8	4459.9	4496.1	4685.6	5348.6	5370.2	5018.9	4543.3
30°	5105.8	5094.9	5058.7	4938.1	4831.9	4801.6	4934.4	5620.2	5849.7	5459.5	4883.7
32.5°	5567.1	5554.9	5521.3	5400.5	5272.5	5202.4	5288.2	5934.2	6414.6	5986.0	5284.5
35°	6135.8	6112.7	6041.6	5873.7	5748.2	5693.8	5733.7	6328.9	7066.5	6609.0	5771.2
37.5°	6670.6	6705.6	6633.2	6401.3	6238.4	6219.1	6263.7	6810.7	7769.4	7305.6	6330.1
40°	7207.9	7213.8	7148.7	6959.2	6791.4	6759.9	6872.3	7394.9	8598.8	8138.7	7009.8
42.5°	7763.2	7775.3	7665.4	7490.3	7367.2	7373.3	7501.2	8079.5	9550.2	9120.3	7792.2
45°	8421.3	8439.3	8318.7	8089.2	7976.9	8202.8	8149.7	8847.4	10593.3	10235.8	8690.6
47.5°	9109.4	9137.2	9045.5	8830.6	8690.6	9000.7	8797.9	9698.6	11716.1	11432.4	9676.9
50°	9484.9	9524.8	9614.1	9598.4	9568.2	9516.4	9521.1	10611.4	12874.0	12678.4	10691.1
52.5°	9283.4	9282.0	9608.1	10004.1	10426.6	10458.1	10402.6	11573.7	13955.7	13896.6	11646.0
55°	8360.9	8423.6	8917.5	9684.2	10838.4	11559.1	11723.3	12676.0	15018.3	15087.0	12615.5
57.5°	6825.1	6877.1	7543.4	8612.1	10283.0	12213.5	13602.0	14278.1	16206.2	16527.3	13906.2
60°	4629.0	4691.8	5398.1	6681.5	8788.3	11849.0	15390.0	17137.1	17628.5	18358.9	15717.3
62.5°	2720.2	2776.9	3352.8	4214.8	6187.6	10155.0	16174.8	21204.6	19887.4	21122.6	18479.7
65°	1872.5	1911.2	2191.3	2623.6	3555.6	6839.6	15201.7	24013.0	23363.4	24546.5	21682.7
67.5°	1506.7	1502.0	1724.0	2018.8	2289.2	3526.7	11495.2	23695.4	26420.4	26914.2	23345.3
70°	1241.2	1236.3	1387.3	1631.1	1829.0	1986.2	6261.2	19996.1	25797.3	25997.8	21814.4
72.5°	1038.4	1043.1	1139.7	1320.9	1500.7	1495.9	2751.6	14066.7	20294.2	21680.4	17389.4
75°	876.6	878.9	943.0	1070.9	1218.2	1204.9	1492.3	7620.9	11797.0	12761.7	9639.4
77.5°	746.1	748.6	789.6	860.8	965.9	961.0	1089.0	3292.5	4921.2	4860.8	3297.3
80°	665.3	665.3	684.6	697.9	755.8	734.0	807.8	1581.6	2080.3	1920.8	1315.9
82.5°	521.6	524.0	642.3	637.4	595.2	567.5	567.5	932.1	1102.3	1018.9	770.2
85°	293.3	292.2	414.1	499.8	524.0	399.7	396.1	521.6	600.1	528.8	373.1
87.5°	125.6	128.0	192.0	222.2	297.0	248.7	245.1	269.2	305.5	264.5	172.7
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°	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1	3407.1
2.5°	3408.3	3377.0	3308.2	3222.4	3145.1	3094.4	3048.6	2982.2	2985.7	2940.0	2906.0
5°	3406.0	3340.7	3181.3	2991.9	2809.4	2677.8	2578.9	2489.6	2467.9	2425.6	2400.2
7.5°	3408.3	3302.1	3034.0	2730.9	2505.3	2338.6	2254.0	2207.0	2196.1	2181.7	2182.9
10°	3416.9	3267.0	2872.3	2487.1	2250.6	2140.7	2120.1	2134.6	2151.5	2156.3	2157.5
12.5°	3436.0	3235.7	2694.7	2269.7	2091.2	2057.3	2092.3	2141.7	2174.4	2190.2	2188.9
15°	3479.6	3211.5	2524.5	2099.6	2003.0	2021.0	2086.4	2156.3	2203.5	2225.1	2226.4
17.5°	3526.7	3176.5	2349.4	1969.2	1937.9	1983.6	2064.6	2146.7	2204.6	2228.8	2233.5
20°	3588.2	3133.1	2166.0	1871.3	1876.2	1928.1	2004.2	2086.4	2150.4	2170.8	2180.5
22.5°	3669.1	3085.9	2005.3	1791.7	1806.2	1846.0	1905.1	1976.5	2032.0	2041.6	2050.1
25°	3777.8	3035.3	1877.4	1719.3	1725.4	1748.2	1788.0	1830.3	1869.0	1858.1	1866.6
27.5°	3923.8	2991.9	1782.1	1652.8	1642.0	1646.9	1667.3	1680.5	1701.2	1670.9	1674.6
30°	4095.4	2944.7	1708.3	1594.9	1564.7	1556.3	1561.2	1568.4	1584.0	1543.0	1537.0
32.5°	4294.5	2888.1	1639.5	1544.1	1502.0	1485.1	1487.5	1506.7	1567.2	1541.9	1528.5
35°	4526.3	2824.0	1567.2	1488.6	1459.7	1435.5	1433.2	1493.5	1673.5	1657.7	1645.7
37.5°	4797.9	2760.0	1494.7	1425.9	1428.2	1401.7	1393.4	1462.1	1693.9	1632.3	1623.9
40°	5143.2	2726.1	1433.2	1359.5	1389.7	1386.1	1369.1	1404.1	1558.6	1446.5	1431.9
42.5°	5570.7	2730.9	1387.3	1288.2	1343.8	1382.4	1355.8	1357.1	1412.6	1328.1	1314.8
45°	6098.4	2787.8	1354.6	1231.4	1291.9	1378.8	1351.1	1331.6	1336.6	1291.9	1284.7
47.5°	6714.0	2904.8	1331.6	1184.4	1242.4	1365.6	1349.9	1324.6	1313.6	1289.4	1283.4
50°	7398.6	3075.1	1314.8	1139.7	1197.7	1343.8	1351.1	1317.3	1305.1	1295.4	1291.9
52.5°	8071.1	3269.6	1289.4	1101.1	1162.6	1317.3	1354.6	1310.0	1296.8	1289.4	1285.8
55°	8820.8	3512.2	1250.8	1068.5	1133.8	1283.4	1354.6	1299.0	1284.7	1285.8	1284.7
57.5°	9833.8	3904.6	1204.9	1040.7	1098.6	1242.4	1331.6	1287.0	1268.9	1270.2	1271.3
60°	11416.6	4596.4	1149.4	1013.0	1055.1	1194.0	1300.2	1260.5	1242.4	1247.1	1248.5
62.5°	13744.4	5611.7	1077.0	972.0	1009.3	1142.1	1256.9	1226.6	1208.6	1220.6	1220.6
65°	16164.0	6507.6	987.5	920.0	961.0	1085.4	1202.6	1184.4	1166.3	1194.0	1192.9
67.5°	16814.7	6307.2	898.2	863.2	912.8	1022.6	1137.3	1127.6	1118.0	1166.3	1163.8
70°	14937.2	5063.7	816.2	805.3	859.7	955.0	1067.2	1067.2	1061.3	1097.5	1089.0
72.5°	11380.4	3590.6	737.7	743.7	799.2	881.3	991.2	999.6	990.0	1008.2	1000.9
75°	6092.2	2055.0	659.1	676.2	724.5	806.5	906.7	915.2	909.2	907.9	911.5
77.5°	2024.7	1004.6	577.2	603.8	645.9	729.2	818.5	831.9	817.4	814.9	813.8
80°	901.9	631.5	486.5	521.6	558.9	641.1	725.7	736.5	720.8	742.4	714.7
82.5°	579.5	415.3	390.0	428.6	464.9	552.9	632.6	635.0	620.5	720.8	614.5
85°	281.3	257.2	293.3	328.4	359.9	434.6	524.0	525.1	488.9	445.5	429.7
87.5°	140.0	149.7	195.7	227.0	242.7	298.1	381.5	374.2	358.6	325.9	300.7
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)