

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: P383091

Luminaire Tested: **GLEON-SA4B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21073.5 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

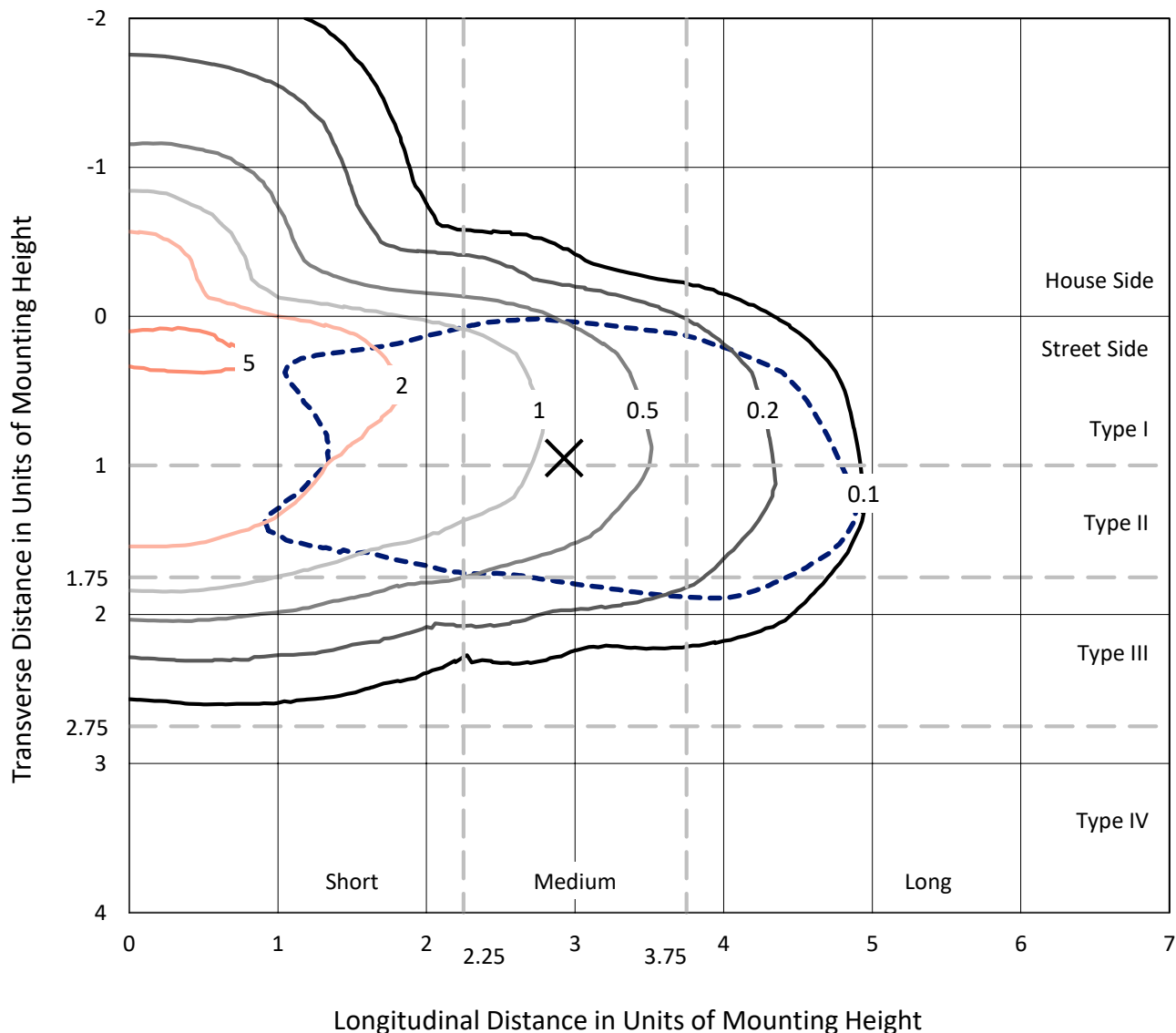
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

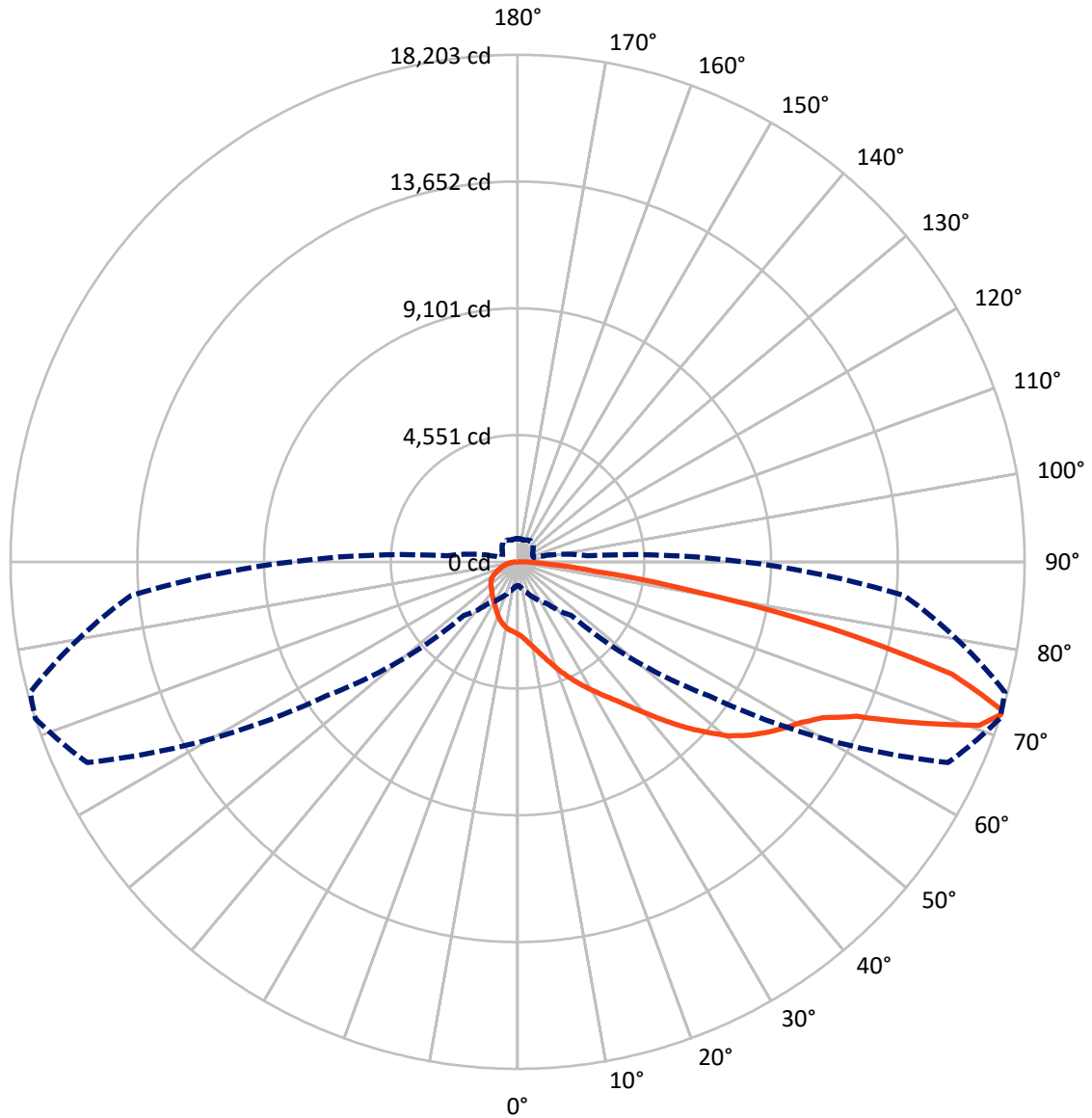
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3909.3	0.0	3909.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	17164.2	0.0	17164.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	21073.5	0.0	21073.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	1.2
10°-20°	839.5	4.0
20°-30°	1471.1	7.0
30°-40°	2181.1	10.4
40°-50°	3190.1	15.1
50°-60°	4389.5	20.8
60°-70°	4886.8	23.2
70°-80°	3311.3	15.7
80°-90°	544.2	2.6
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°	21073.5	100.0
0°-180°	21073.5	100.0

Coefficient of Utilization

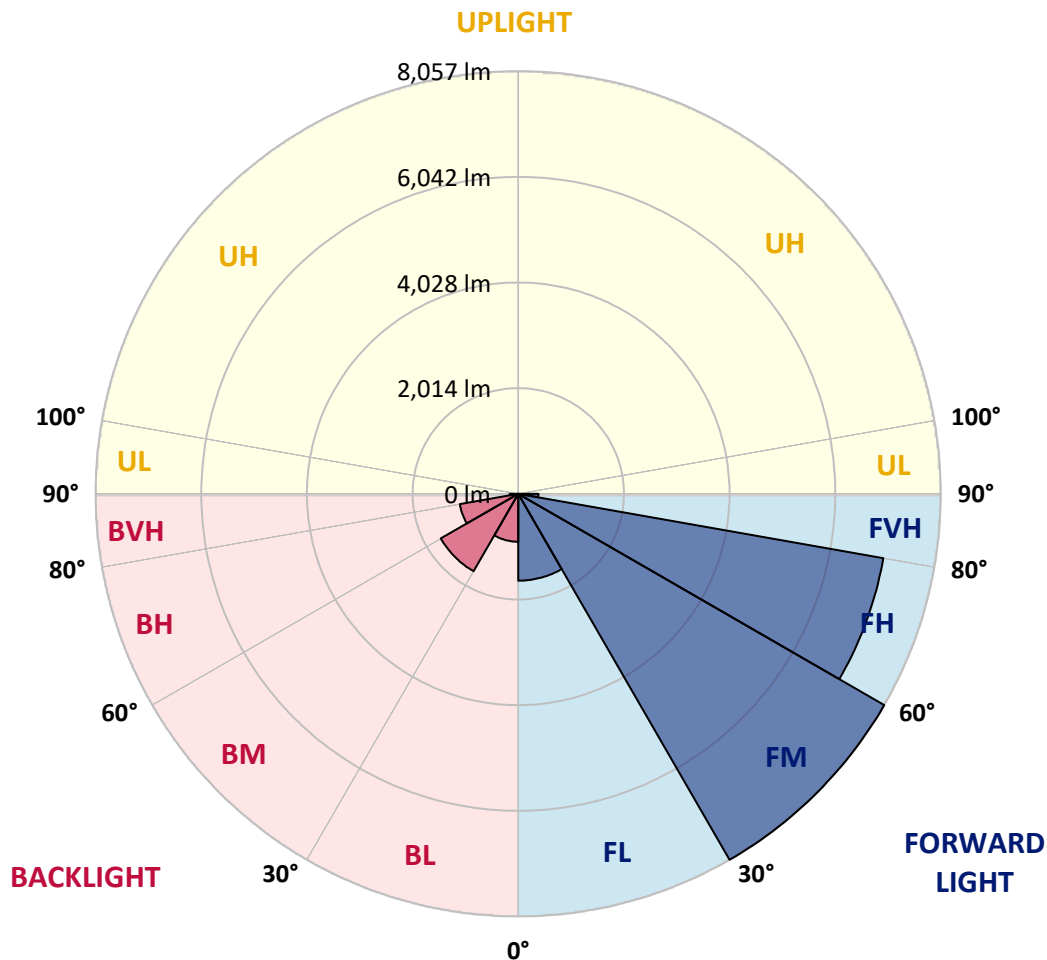


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1656.5	7.9			
FM (30°-60°)	8056.7	38.2			
FH (60°-80°)	7067.1	33.5			G3/7500
FVH (80°-90°)	383.9	1.8			G3/500
BL (0°-30°)	913.8	4.3	B2/1000		
BM (30°-60°)	1704.1	8.1	B2/2500		
BH (60°-80°)	1131.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	160.3	0.8			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6
2.5°	2863.9	2859.6	2844.4	2844.4	2815.3	2790.6	2744.2	2713.0	2676.1	2663.0	2619.4
5°	3141.2	3142.6	3123.8	3110.6	3067.9	3015.6	2936.5	2864.7	2792.9	2763.8	2674.6
7.5°	3374.1	3371.2	3366.1	3355.2	3315.3	3261.6	3155.0	3048.3	2942.3	2898.8	2745.0
10°	3523.6	3530.1	3534.4	3539.5	3522.8	3484.4	3383.5	3253.6	3115.0	3055.5	2829.1
12.5°	3599.0	3610.6	3630.9	3665.7	3693.3	3689.0	3615.7	3477.8	3313.1	3238.3	2934.4
15°	3643.3	3658.5	3690.4	3752.8	3830.4	3874.8	3855.1	3730.3	3546.8	3454.6	3062.7
17.5°	3670.9	3683.2	3732.5	3816.0	3931.3	4048.9	4100.4	3995.9	3810.9	3705.7	3210.1
20°	3689.7	3699.2	3760.8	3858.7	4008.3	4195.4	4339.1	4313.0	4101.9	3965.4	3363.9
22.5°	3731.8	3739.8	3798.6	3897.2	4062.7	4304.3	4569.1	4608.3	4408.7	4254.2	3528.6
25°	3849.3	3849.3	3898.7	3967.6	4122.8	4398.6	4763.6	4937.0	4722.2	4542.3	3681.0
27.5°	4073.6	4071.3	4089.5	4113.4	4231.0	4494.4	4937.0	5227.3	5047.3	4850.7	3829.0
30°	4339.1	4353.6	4355.8	4344.2	4399.3	4614.1	5097.3	5533.5	5374.6	5162.6	3980.7
32.5°	4680.8	4690.3	4679.4	4641.0	4633.0	4783.9	5254.9	5854.2	5728.6	5488.5	4119.3
35°	5114.8	5096.7	5062.6	4984.2	4909.4	5011.1	5434.7	6174.9	6126.3	5882.4	4310.1
37.5°	5579.9	5580.6	5538.5	5360.8	5257.7	5301.3	5682.9	6538.4	6607.4	6351.2	4554.6
40°	5952.9	5972.4	5998.6	5765.0	5631.4	5691.7	5998.6	6960.0	7176.3	6907.1	4873.2
42.5°	6213.3	6235.9	6309.8	6163.3	6024.7	6136.5	6370.1	7409.9	7814.8	7548.4	5246.1
45°	6489.1	6501.5	6553.6	6490.6	6402.0	6653.8	6788.7	7875.7	8490.3	8232.0	5663.3
47.5°	6779.3	6792.4	6846.0	6804.0	6757.5	7137.1	7225.5	8314.7	9137.6	8983.0	6108.9
50°	7137.8	7146.5	7197.2	7121.1	7135.6	7501.3	7616.0	8717.4	9816.0	9657.8	6555.9
52.5°	7626.9	7629.0	7699.4	7630.5	7562.2	7768.4	7951.9	9096.9	10347.8	10273.1	7002.8
55°	8009.9	8033.2	8263.9	8249.4	8210.2	8010.7	8232.7	9458.3	10822.4	10857.9	7477.3
57.5°	7765.4	7856.1	8323.4	8652.9	8973.6	8613.6	8612.3	9865.4	11263.5	11432.0	7999.1
60°	6801.1	6924.5	7613.1	8343.7	9347.2	9662.9	9400.2	10362.3	11709.1	12000.8	8652.9
62.5°	4857.2	5060.4	5993.5	7160.2	8835.0	10358.0	11003.8	11151.1	12315.0	12659.6	9502.5
65°	2455.5	2609.3	3391.5	4797.0	7058.7	9903.7	12746.7	12878.0	13367.8	13674.0	10810.8
67.5°	1491.9	1549.9	1931.6	2668.0	4327.5	7714.6	13315.5	15756.5	15405.3	15567.8	12676.3
70°	1099.3	1142.1	1380.1	1771.9	2488.8	4527.0	11569.7	17810.7	17580.0	17561.8	14055.0
72°	856.2	887.4	1097.8	1431.6	1819.8	2715.9	8385.8	17052.4	18202.5	18111.1	13928.7
72.5°	811.9	839.5	1031.1	1347.5	1719.7	2462.0	7539.8	16540.9	18157.5	18116.2	13765.5
75°	639.2	658.9	763.3	1041.9	1346.0	1396.8	4131.6	12818.6	16107.7	16777.5	12381.0
77.5°	528.9	531.9	587.0	758.3	1049.2	987.5	2029.6	8893.8	11534.2	12270.7	8770.4
80°	431.0	434.7	460.7	531.9	793.8	730.7	963.6	5114.1	6457.9	6465.9	4170.8
82.5°	343.2	343.9	373.0	388.9	570.3	522.4	552.2	2401.1	2821.8	2714.5	1499.1
85°	241.6	236.5	364.2	319.2	373.0	335.3	304.7	950.6	1166.8	1116.0	469.5
87.5°	80.6	83.5	161.8	206.8	217.7	190.1	135.7	364.2	440.4	436.8	148.8
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°	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6	2592.6
2.5°	2605.6	2582.4	2548.3	2510.6	2480.8	2450.3	2427.9	2416.2	2403.2	2392.3	2405.3
5°	2633.2	2589.7	2517.1	2446.1	2393.8	2347.3	2314.0	2296.5	2280.6	2269.7	2271.1
7.5°	2678.2	2607.9	2485.9	2382.2	2309.6	2259.6	2225.5	2213.8	2203.7	2200.8	2204.4
10°	2726.1	2622.3	2444.6	2306.7	2224.0	2182.6	2167.3	2175.3	2182.6	2189.1	2196.4
12.5°	2780.5	2635.4	2384.3	2218.2	2147.8	2131.8	2147.0	2181.9	2207.3	2222.5	2232.0
15°	2851.7	2647.0	2314.7	2129.6	2082.5	2100.6	2152.2	2212.3	2256.7	2284.9	2289.3
17.5°	2917.0	2646.2	2225.5	2040.4	2029.6	2082.5	2160.2	2245.0	2304.6	2344.4	2352.4
20°	2984.4	2626.7	2121.7	1953.4	1975.8	2062.9	2163.8	2266.1	2337.9	2384.3	2395.2
22.5°	3047.6	2592.6	2007.8	1874.3	1930.8	2036.7	2150.0	2253.7	2325.6	2363.3	2374.9
25°	3090.3	2533.1	1892.3	1807.5	1890.9	2004.9	2105.0	2188.4	2242.1	2261.0	2263.8
27.5°	3112.1	2455.5	1783.5	1749.4	1849.6	1952.6	2021.6	2062.9	2078.1	2076.7	2073.8
30°	3115.0	2353.2	1689.9	1702.3	1801.7	1875.7	1908.4	1900.4	1880.8	1847.4	1850.3
32.5°	3105.6	2237.8	1611.6	1657.3	1740.7	1782.1	1783.5	1745.1	1692.8	1639.9	1625.4
35°	3108.5	2124.6	1542.6	1606.5	1666.7	1684.9	1668.1	1611.6	1540.5	1472.2	1457.8
37.5°	3140.4	2025.9	1483.1	1547.7	1584.7	1589.0	1565.1	1505.7	1453.4	1386.6	1380.8
40°	3216.6	1955.5	1426.6	1481.7	1502.8	1504.9	1470.8	1428.7	1433.1	1397.5	1396.8
42.5°	3353.8	1925.0	1376.5	1412.8	1425.8	1430.2	1404.0	1377.2	1414.9	1391.7	1383.7
45°	3530.8	1932.3	1334.3	1345.2	1369.2	1389.5	1373.6	1341.0	1355.4	1254.6	1221.2
47.5°	3735.4	1978.7	1301.0	1287.2	1328.6	1367.0	1342.4	1293.0	1241.5	1141.3	1122.5
50°	3974.8	2050.5	1270.5	1229.9	1284.3	1336.6	1311.9	1241.5	1163.9	1115.2	1108.7
52.5°	4224.5	2138.4	1240.1	1166.8	1228.4	1313.4	1301.0	1229.9	1134.2	1086.2	1077.5
55°	4507.5	2226.9	1201.6	1093.5	1168.3	1302.5	1296.0	1187.8	1111.6	1084.8	1078.3
57.5°	4859.4	2327.8	1150.8	1017.3	1111.6	1263.3	1243.0	1162.4	1088.4	1068.1	1065.9
60°	5317.9	2476.5	1077.5	936.0	1042.7	1203.1	1198.7	1125.4	1051.4	1036.9	1034.0
62.5°	6005.9	2722.4	976.6	854.8	965.7	1100.7	1140.7	1075.4	1012.2	1011.5	1013.0
65°	7072.5	3092.6	867.1	783.6	888.1	1014.4	1073.1	1023.9	972.3	986.8	989.0
67.5°	8308.9	3399.5	759.7	714.0	809.0	932.4	1012.2	972.3	919.3	957.1	957.8
70°	8720.3	3125.2	665.4	645.1	727.1	853.3	946.2	915.7	862.1	899.8	896.1
72°	8115.2	2522.9	604.4	592.8	665.4	788.0	887.4	862.7	809.8	835.1	825.7
72.5°	7924.3	2405.3	589.2	579.8	648.7	771.3	872.2	849.7	796.8	818.5	809.8
75°	7068.9	2089.0	506.5	508.6	566.0	690.1	786.6	779.3	724.8	727.1	724.2
77.5°	5127.1	1531.7	426.6	441.2	481.8	606.6	700.2	695.9	636.3	625.4	623.3
80°	2379.3	781.5	347.6	354.1	396.2	507.2	597.2	591.3	543.5	529.7	521.7
82.5°	814.8	371.5	261.2	265.6	306.9	408.5	518.1	514.5	474.5	447.7	431.0
85°	290.9	185.0	182.9	178.5	219.1	321.5	451.3	431.8	373.0	317.8	316.4
87.5°	94.4	79.1	94.4	93.6	127.7	217.7	328.0	279.4	270.6	225.0	220.6
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)