

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: P383246

Luminaire Tested: **GLEON-SA5D-735-U-AFL**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA5D-735-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37060.7 lumens  
Efficiency: N/A  
Efficacy: 115.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

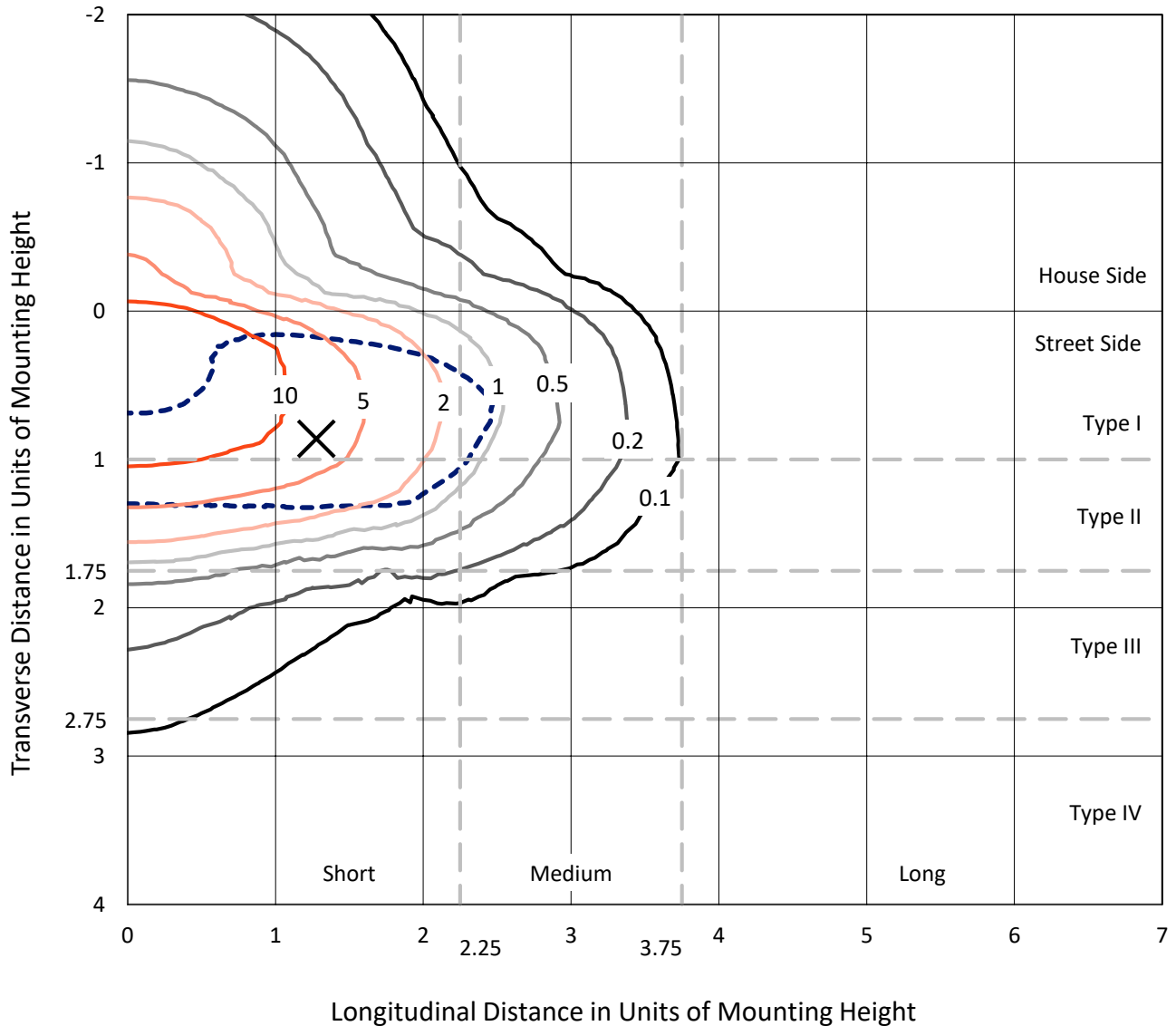
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

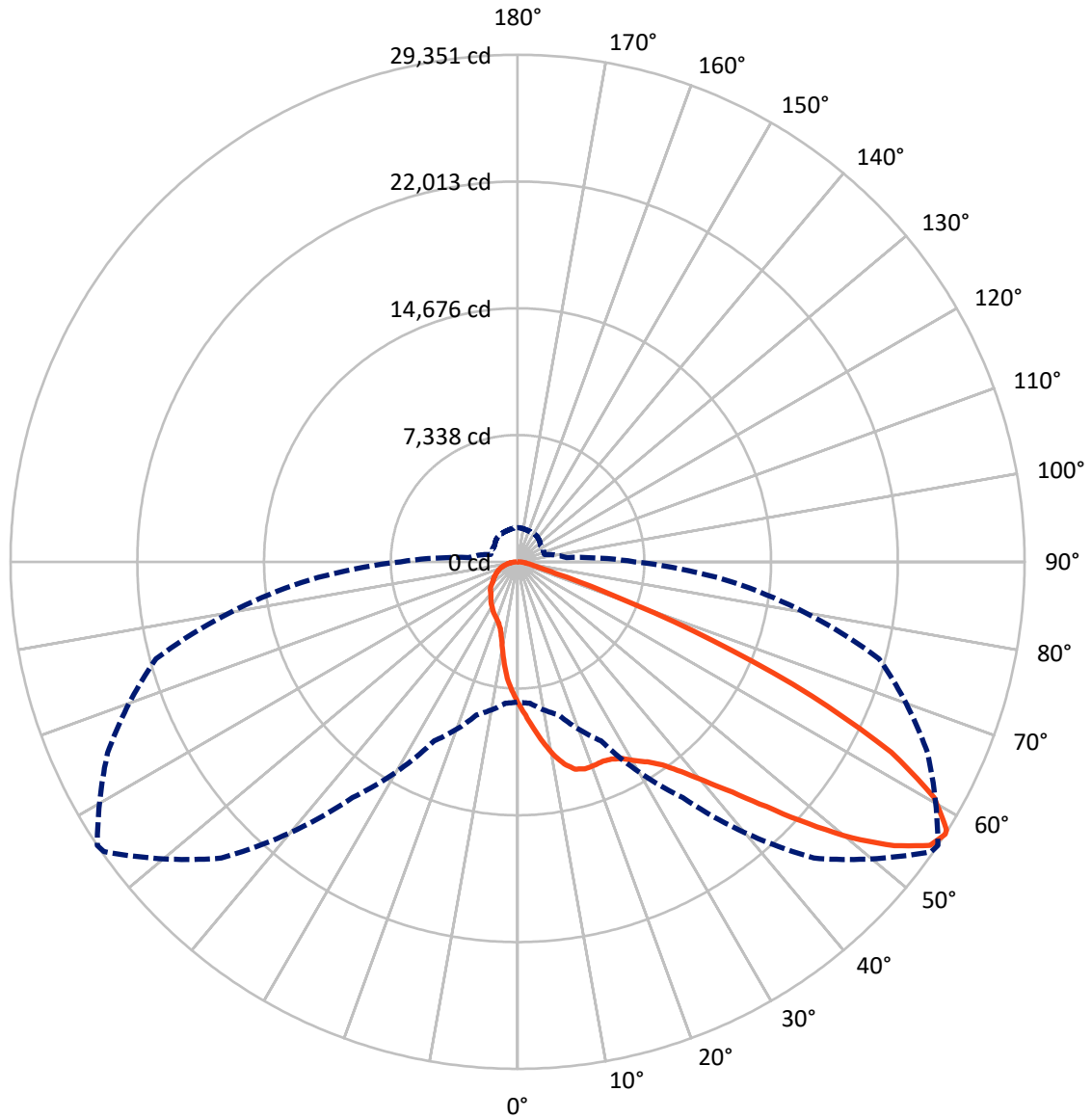
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6388.5	0.0	6388.5
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	30672.2	0.0	30672.2
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	37060.7	0.0	37060.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	785.2	2.1
10°-20°	2220.0	6.0
20°-30°	3616.0	9.8
30°-40°	5405.5	14.6
40°-50°	8199.0	22.1
50°-60°	9189.6	24.8
60°-70°	5427.7	14.6
70°-80°	1778.3	4.8
80°-90°	439.3	1.2
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°	37060.7	100.0
0°-180°	37060.7	100.0

**Coefficient of Utilization**



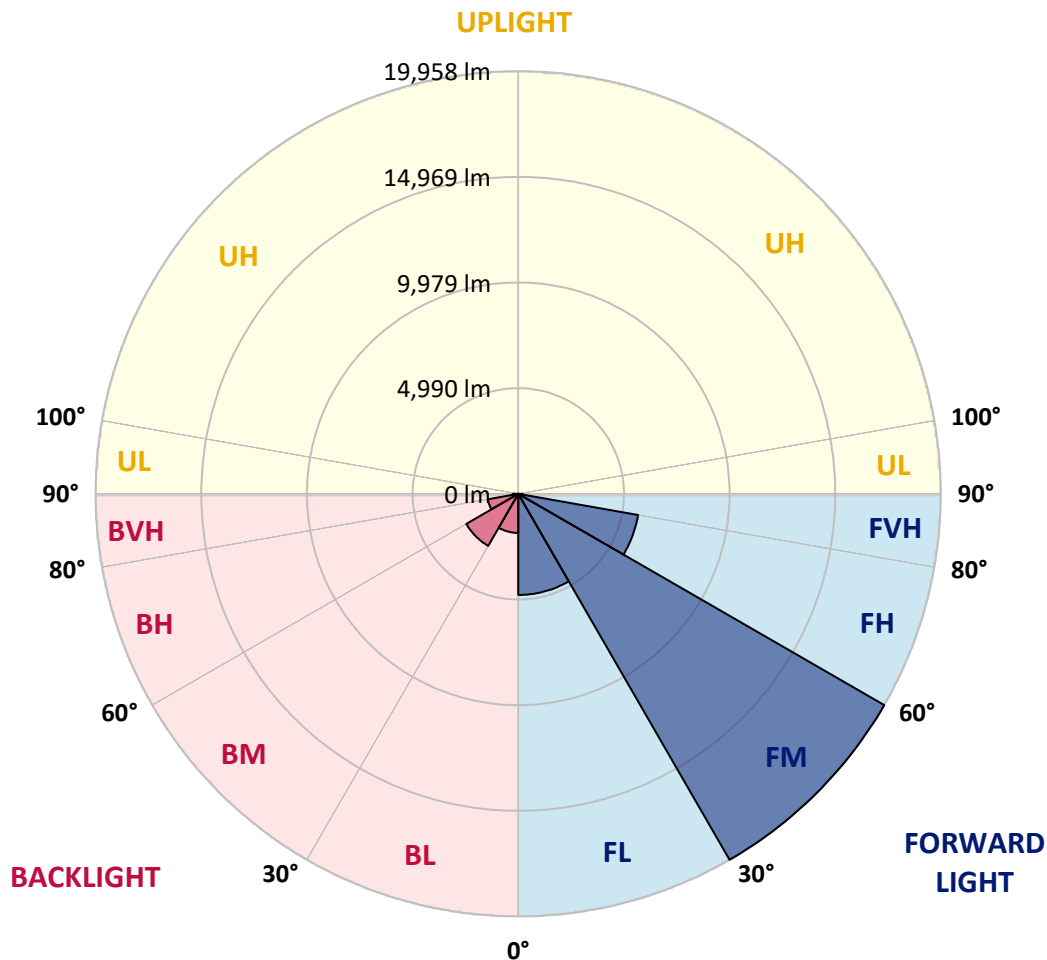
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4774.0	12.9			
FM (30°-60°)	19958.4	53.9			
FH (60°-80°)	5746.4	15.5			G3/7500
FVH (80°-90°)	193.5	0.5			G2/225
BL (0°-30°)	1847.2	5.0	B3/2500		
BM (30°-60°)	2835.6	7.7	B3/5000		
BH (60°-80°)	1459.7	3.9	B3/2500		G3/2500
BVH (80°-90°)	245.9	0.7			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1
2.5°	9439.0	9525.5	9487.3	9354.9	9253.1	9109.1	8948.6	8900.2	8730.8	8541.1	8313.0
5°	10932.9	10889.6	10827.3	10620.9	10403.2	10149.7	9747.2	9683.5	9306.5	8877.3	8423.9
7.5°	11783.7	11779.9	11743.0	11622.0	11423.3	11092.1	10606.9	10531.8	9962.4	9272.2	8569.0
10°	11660.2	11651.3	11712.4	11838.5	11898.4	11829.6	11420.8	11345.6	10646.4	9709.0	8737.2
12.5°	10958.4	10963.5	11061.6	11326.5	11686.9	12120.0	12053.8	12016.9	11355.8	10203.1	8941.0
15°	10412.0	10423.5	10501.1	10731.7	11157.1	11943.0	12438.4	12451.2	12042.3	10748.3	9179.2
17.5°	10172.6	10196.8	10232.5	10394.2	10784.0	11590.1	12530.1	12598.9	12643.4	11313.7	9408.4
20°	10249.0	10271.9	10282.1	10385.3	10705.0	11376.2	12466.4	12590.0	13104.5	11846.1	9637.7
22.5°	10591.6	10605.7	10612.0	10638.7	10887.1	11437.4	12424.4	12554.3	13438.2	12323.8	9810.9
25°	11159.7	11149.5	11108.7	11074.3	11241.2	11679.3	12521.2	12644.7	13709.5	12756.8	9924.2
27.5°	11839.8	11827.0	11748.1	11653.8	11749.3	12056.3	12800.1	12898.2	13952.7	13161.8	9981.5
30°	12656.2	12623.1	12474.1	12362.0	12398.9	12621.8	13259.9	13349.1	14328.5	13621.6	10037.6
32.5°	13599.9	13564.3	13349.1	13163.1	13163.1	13349.1	13733.7	13807.6	14646.9	14141.3	10128.0
35°	14781.9	14737.4	14457.2	14145.1	14057.2	14151.4	14379.5	14431.6	15220.0	14796.0	10292.3
37.5°	16175.3	16115.4	15752.4	15334.7	15142.3	15137.3	15301.5	15408.5	16135.8	15655.6	10571.2
40°	17572.4	17530.4	17213.3	16884.7	16507.7	16386.7	16640.1	16673.3	17333.0	16723.0	10927.9
42.5°	18652.5	18644.8	18586.2	18629.6	18243.7	17999.1	18197.8	18224.5	18795.2	17878.2	11307.4
45°	19223.1	19235.8	19519.8	20149.0	20291.7	20113.4	20211.4	20219.1	20466.2	19043.5	11655.2
47.5°	18765.8	18832.1	19550.4	20957.8	22125.7	22718.0	22554.9	22649.2	22086.2	20044.6	11927.6
50°	16984.1	17065.6	18288.2	20597.4	22981.7	25238.5	25153.2	25131.6	23393.0	20778.3	12075.4
52.5°	14776.8	14840.5	15849.3	18723.8	22353.7	26631.9	27415.2	27303.1	24554.6	21327.1	12103.4
55°	11415.7	11515.0	12481.7	14984.4	19814.1	26099.5	29078.5	28977.9	25613.0	21615.0	12070.3
57°	8115.6	8220.1	9180.4	11436.1	16668.2	24256.6	29244.2	29351.1	26184.9	21663.4	12107.2
57.5°	7241.9	7348.9	8300.4	10491.0	15687.4	23590.4	29101.5	29279.8	26288.0	21655.8	12127.6
60°	3646.4	3687.2	4293.4	5856.2	9916.6	19071.6	27240.7	27700.5	26381.0	21281.3	12215.5
62.5°	2267.1	2237.8	2218.7	2697.6	4824.6	12647.2	23400.7	24285.8	24601.7	20374.4	12002.8
65°	1993.2	1938.5	1728.3	1690.1	2130.8	6142.8	17622.1	18723.8	20799.9	18945.4	11495.9
67.5°	1872.2	1818.8	1581.9	1439.2	1440.5	2435.3	10940.6	12181.1	16203.2	16529.4	10299.9
70°	1747.4	1699.0	1477.4	1309.3	1226.5	1348.8	5033.4	5974.7	10562.4	12992.5	8608.5
72.5°	1587.0	1553.8	1343.7	1170.5	1082.6	1010.0	1927.0	2276.0	6114.8	8725.7	5978.5
75°	1418.8	1388.3	1208.7	1043.1	936.1	794.8	1085.2	1169.2	3106.4	4464.2	2943.4
77.5°	1234.1	1216.3	1074.9	922.1	836.8	658.5	768.0	808.8	1332.2	1914.3	1476.1
80°	981.9	1016.4	939.9	821.5	742.5	527.3	543.8	570.6	775.6	934.8	838.0
82.5°	639.4	699.2	736.2	667.4	611.4	415.2	391.0	402.4	505.6	570.6	364.2
85°	266.2	299.3	483.9	436.9	406.2	303.1	262.4	267.4	313.3	324.7	149.0
87.5°	118.5	126.1	212.7	200.0	172.0	104.4	112.1	122.3	166.8	157.9	57.3
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°	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1	8220.1
2.5°	8227.7	8120.8	7937.3	7734.8	7569.3	7436.8	7303.1	7211.4	7104.4	7047.1	7017.8
5°	8234.1	8024.0	7638.0	7241.9	6887.9	6564.3	6256.2	6019.2	5797.6	5677.9	5644.8
7.5°	8260.9	7945.0	7320.9	6668.8	6039.6	5465.2	5022.0	4744.3	4544.4	4455.2	4429.7
10°	8282.5	7852.0	6928.7	5963.2	5107.3	4525.3	4181.3	4026.0	3957.2	3945.8	3934.3
12.5°	8333.4	7756.5	6516.0	5227.0	4382.7	3980.1	3860.4	3850.2	3869.4	3897.3	3897.3
15°	8413.6	7662.3	6044.7	4595.3	3921.5	3780.2	3804.3	3860.4	3912.6	3955.9	3962.3
17.5°	8472.2	7546.4	5537.8	4089.7	3675.7	3714.0	3800.5	3879.5	3933.0	3975.0	3978.8
20°	8514.3	7366.8	4996.5	3703.7	3534.4	3652.8	3761.0	3831.1	3868.1	3910.1	3916.4
22.5°	8492.6	7126.1	4516.3	3427.3	3419.7	3563.6	3666.9	3750.9	3722.8	3682.1	3708.9
25°	8388.2	6794.9	4022.1	3221.0	3298.7	3443.9	3571.3	3515.3	3421.0	3403.1	3413.4
27.5°	8202.3	6372.1	3564.9	3030.0	3158.6	3333.2	3325.4	3269.5	3236.3	3213.4	3227.4
30°	8002.3	5913.6	3165.0	2863.1	3003.2	3147.1	3117.9	3116.6	3083.5	3046.5	3064.4
32.5°	7804.9	5452.4	2847.8	2725.6	2886.1	2905.2	2968.8	2987.9	2923.0	2845.3	2840.2
35°	7632.9	5016.8	2607.1	2600.8	2744.7	2747.2	2840.2	2813.5	2651.7	2571.4	2571.4
37.5°	7504.3	4582.6	2423.7	2488.7	2558.8	2625.0	2672.1	2561.3	2534.6	2489.9	2488.7
40°	7448.3	4200.4	2309.1	2403.4	2427.5	2511.6	2390.6	2433.9	2446.7	2423.7	2423.7
42.5°	7389.7	3868.1	2209.8	2338.4	2334.6	2323.1	2262.0	2318.1	2369.0	2370.2	2366.4
45°	7331.1	3581.5	2121.9	2199.6	2253.0	2129.5	2141.0	2200.9	2272.1	2297.7	2297.7
47.5°	7266.2	3354.8	2041.7	2053.1	2135.9	2053.1	2044.2	2090.0	2174.1	2214.8	2223.8
50°	7123.5	3151.0	1949.9	1924.5	1947.4	1975.4	1983.1	2004.7	2097.7	2162.7	2178.0
52.5°	6926.1	2968.8	1832.7	1806.0	1806.0	1911.7	1947.4	1953.7	2032.7	2110.4	2125.7
55°	6761.7	2853.0	1711.8	1706.7	1701.6	1844.3	1905.4	1915.5	1970.3	2031.4	2039.1
57°	6773.2	2844.0	1618.8	1623.9	1622.7	1775.4	1865.9	1887.5	1915.5	1967.8	1976.7
57.5°	6779.6	2850.4	1598.4	1601.0	1599.7	1756.3	1854.4	1878.7	1900.3	1955.0	1964.0
60°	6875.1	2866.9	1515.6	1487.6	1494.0	1654.4	1789.5	1820.1	1834.0	1906.6	1918.1
62.5°	6733.8	2793.1	1449.4	1381.9	1381.9	1547.5	1699.0	1747.4	1769.1	1867.2	1886.3
65°	6323.6	2585.5	1371.7	1262.2	1274.9	1440.5	1590.8	1669.7	1702.9	1825.1	1845.5
67.5°	5690.6	2344.8	1288.9	1155.2	1168.0	1328.4	1478.7	1564.1	1616.2	1779.3	1795.8
70°	4866.6	2050.5	1176.8	1041.8	1057.1	1206.2	1346.3	1443.1	1520.8	1735.9	1741.1
72.5°	3587.9	1681.2	1020.2	917.0	933.6	1063.5	1212.5	1324.6	1429.0	1627.7	1625.2
75°	2133.3	1314.4	847.0	791.0	802.4	923.3	1091.5	1227.8	1384.5	1585.7	1609.9
77.5°	1294.0	989.6	690.3	662.3	676.3	799.8	1004.9	1150.1	1365.4	1495.2	1487.6
80°	782.0	706.9	551.5	533.7	547.7	683.9	929.8	1091.5	1193.4	1277.4	1277.4
82.5°	408.9	431.8	405.0	391.0	410.1	555.3	845.7	952.7	1054.6	905.6	845.7
85°	166.8	225.4	245.8	244.5	256.0	384.6	729.8	815.1	680.1	645.7	661.0
87.5°	56.1	95.5	119.7	103.1	108.2	242.0	505.6	393.6	467.5	326.0	309.5
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)