

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: P383533

Luminaire Tested: **GLEON-SA8B-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8B-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA 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: 40541 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

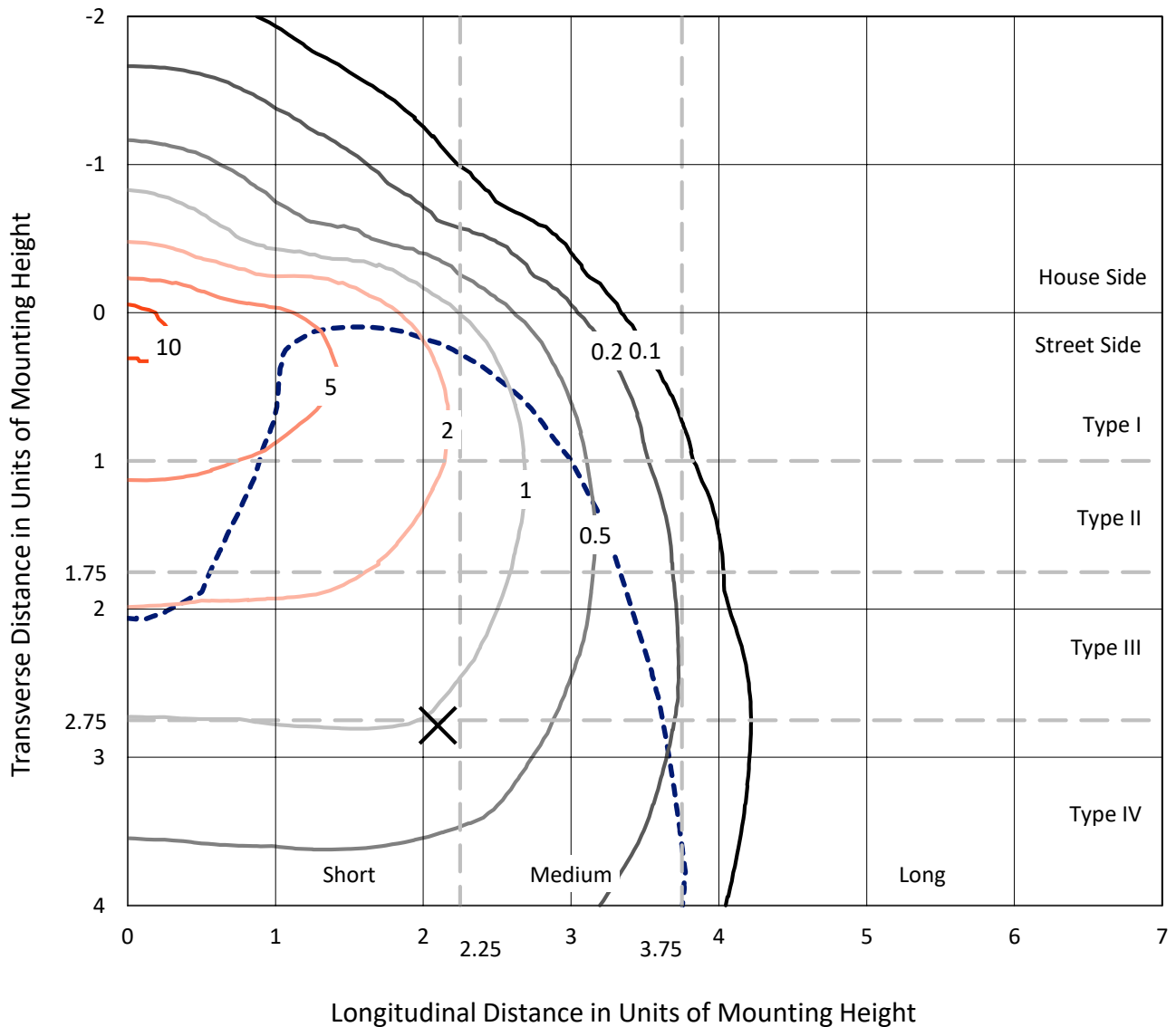
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

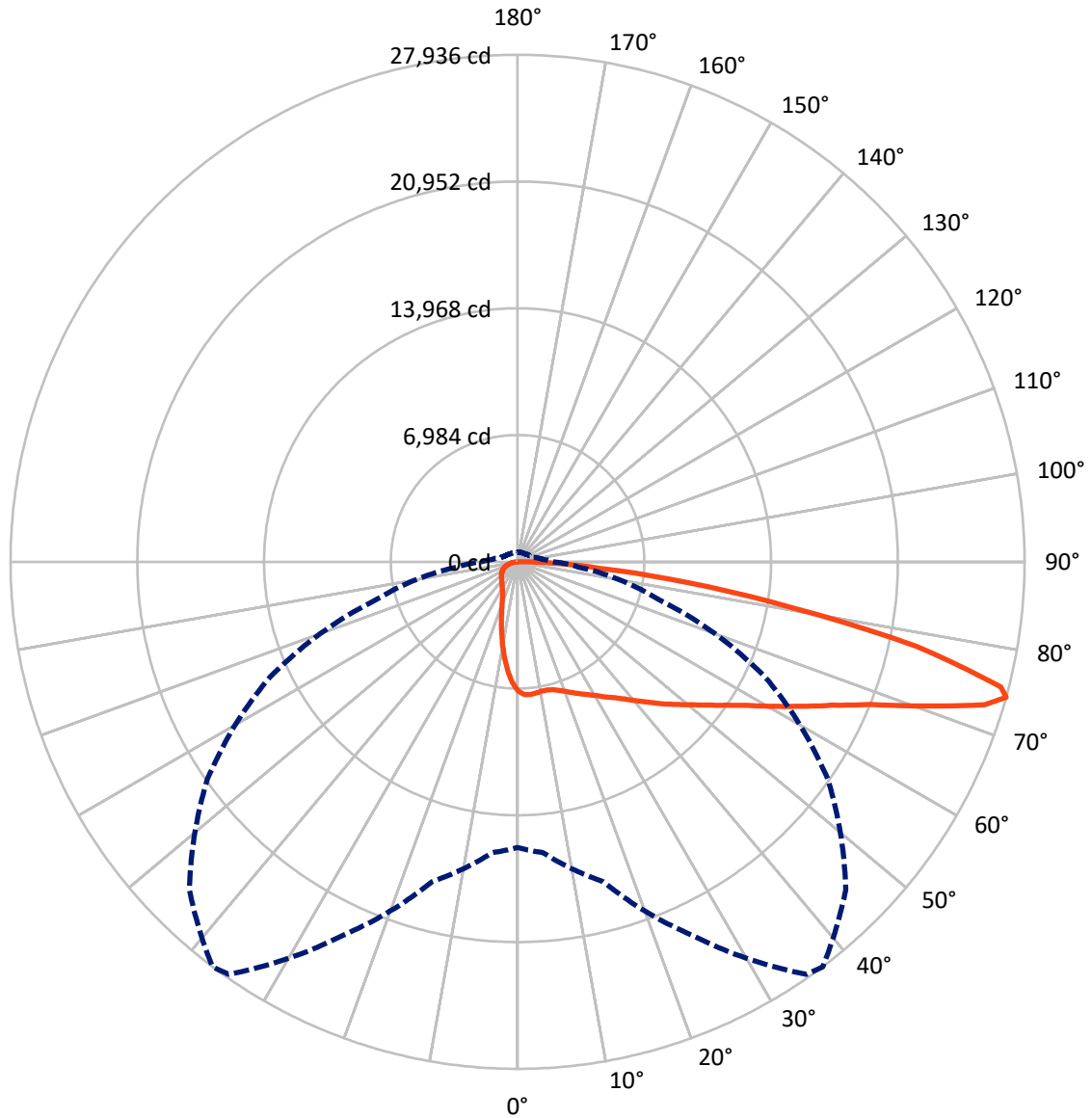
✕ Max cd  
 - - - 1/2 Max cd



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 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5578.2	0.0	5578.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	34962.8	0.0	34962.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	40541.0	0.0	40541.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	629.0	1.6
10°-20°	1612.4	4.0
20°-30°	2484.4	6.1
30°-40°	3612.6	8.9
40°-50°	5317.2	13.1
50°-60°	7467.0	18.4
60°-70°	9451.0	23.3
70°-80°	8321.9	20.5
80°-90°	1645.4	4.1
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°	40541.0	100.0
0°-180°	40541.0	100.0

**Coefficient of Utilization**



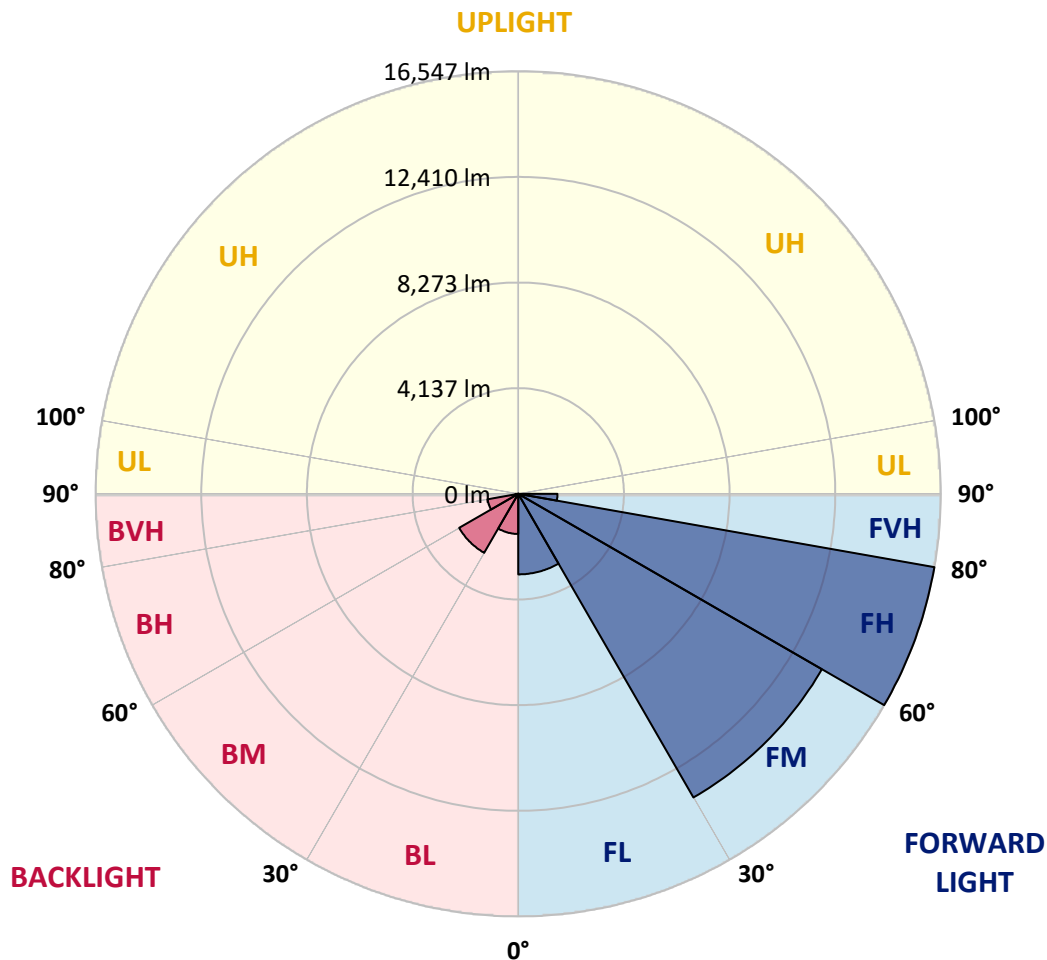
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3154.6	7.8			
FM (30°-60°)	13727.5	33.9			
FH (60°-80°)	16546.7	40.8			G5
FVH (80°-90°)	1534.0	3.8			G5
BL (0°-30°)	1571.2	3.9	B3/2500		
BM (30°-60°)	2669.4	6.6	B3/5000		
BH (60°-80°)	1226.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.3			G2/225
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°	37°	45°	55°	65°	75°	85°
0°	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2
2.5°	7387.4	7388.8	7387.4	7375.9	7348.8	7326.0	7307.4	7280.2	7220.2	7174.6	7106.0
5°	7457.3	7448.7	7443.1	7421.6	7378.8	7353.1	7317.4	7266.0	7167.4	7076.0	6964.6
7.5°	7424.5	7414.5	7401.6	7375.9	7327.4	7305.9	7256.0	7188.8	7070.4	6950.4	6790.4
10°	7323.1	7320.2	7314.5	7308.8	7267.4	7250.2	7204.6	7133.1	7016.0	6870.4	6683.3
12.5°	7210.3	7217.4	7240.3	7270.3	7251.7	7243.2	7214.6	7166.0	7046.0	6889.0	6663.4
15°	7138.9	7158.9	7220.2	7298.9	7314.5	7311.6	7304.5	7273.2	7146.0	6971.8	6709.0
17.5°	7114.6	7147.5	7264.6	7394.5	7440.2	7450.1	7453.0	7398.8	7257.4	7073.1	6756.1
20°	7158.9	7200.3	7371.6	7550.2	7622.9	7628.7	7615.9	7521.6	7363.0	7160.3	6781.9
22.5°	7293.1	7330.3	7544.4	7745.8	7828.6	7837.2	7798.6	7655.8	7474.5	7263.1	6817.5
25°	7551.6	7597.2	7811.5	8012.9	8055.7	8057.1	8001.4	7824.3	7620.2	7407.4	6894.7
27.5°	7888.6	7934.3	8127.1	8324.1	8301.3	8288.4	8212.8	8035.7	7810.1	7605.8	7031.8
30°	8264.2	8314.2	8496.9	8636.9	8582.6	8556.9	8495.5	8267.0	8074.3	7877.2	7241.7
32.5°	8652.6	8698.3	8858.3	8953.9	8885.4	8873.9	8781.1	8572.7	8418.4	8291.3	7581.6
35°	9051.0	9083.9	9241.0	9295.3	9203.9	9201.0	9175.3	8983.9	8886.8	8946.8	8075.7
37.5°	9458.0	9466.6	9600.8	9603.7	9576.6	9588.0	9615.2	9495.2	9522.3	9709.4	8718.4
40°	9820.7	9843.7	9940.7	9970.7	10017.9	10057.8	10193.5	10114.9	10324.9	10656.2	9518.0
42.5°	10089.2	10133.6	10289.1	10366.3	10519.1	10581.9	10773.3	10846.1	11268.8	11765.8	10469.1
45°	10316.3	10384.9	10634.7	10793.3	11051.8	11161.7	11435.9	11680.1	12335.6	12969.7	11470.1
47.5°	10562.0	10649.1	10961.8	11264.6	11615.8	11740.1	12238.5	12604.0	13473.7	14180.7	12414.2
50°	10923.2	10990.4	11295.9	11771.5	12209.9	12369.8	13059.6	13583.7	14630.5	15334.5	13232.4
52.5°	11427.3	11401.7	11660.1	12327.0	12915.3	13112.5	13936.4	14626.2	15803.0	16378.5	13923.6
55°	11934.3	11891.5	12072.9	12908.3	13737.9	13945.0	14901.8	15673.0	16918.2	17318.1	14453.4
57.5°	12498.4	12417.0	12569.7	13563.7	14674.8	14921.8	15982.8	16785.5	18015.0	18077.8	14790.5
60°	13079.6	12969.7	13141.0	14376.3	15864.3	16155.6	17248.1	17870.7	19048.9	18686.2	14899.0
62.5°	13588.0	13510.9	13775.1	15283.1	17205.3	17525.1	18490.6	19024.6	20068.5	18938.9	14507.6
65°	14032.1	14044.9	14502.0	16302.7	18700.4	19041.8	19915.7	20447.0	20871.1	18789.0	13592.3
67.5°	14562.0	14634.8	15414.5	17645.1	20582.6	20956.7	21989.3	21997.8	21319.5	17909.3	11790.0
70°	15334.5	15484.5	16669.8	19507.4	23258.8	23772.9	24569.8	22909.0	20689.8	15524.4	9276.7
72.5°	16020.0	16299.8	18005.0	21638.0	26520.5	26910.4	26079.2	22383.4	18057.9	11634.4	5779.3
74°	15741.5	16088.6	18247.7	22687.6	27748.7	27935.7	25569.4	20849.7	15056.0	8057.1	3358.8
75°	15141.7	15518.7	17893.6	22677.6	27593.0	27488.8	24338.5	19097.5	12399.8	5495.2	2234.9
77.5°	12219.9	12618.4	15077.5	19435.9	22624.8	22526.2	18696.2	12811.1	5430.9	1802.2	1135.3
80°	7104.6	7408.8	9359.5	12342.7	15256.0	15434.4	12295.6	6339.2	2136.4	1012.5	769.7
82.5°	3156.0	3366.0	4521.3	6300.6	9206.7	9436.6	6439.1	3321.7	1319.5	615.5	462.7
85°	2070.6	2226.3	2744.7	3000.3	4384.1	4541.2	3151.7	2586.3	871.1	338.4	339.9
87.5°	1489.5	1639.4	2039.3	1780.7	2012.1	1905.0	1715.1	2393.4	349.9	192.8	114.2
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°	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2	7143.2
2.5°	7076.0	7053.2	7001.8	6904.6	6850.4	6804.7	6729.0	6684.8	6664.8	6663.4	6671.9
5°	6900.3	6847.5	6714.8	6551.9	6422.0	6303.5	6156.4	6067.8	6005.0	5967.9	5977.8
7.5°	6696.2	6613.3	6404.9	6145.0	5936.5	5706.6	5479.5	5343.8	5238.1	5159.6	5173.9
10°	6556.2	6442.0	6137.8	5763.7	5416.7	5082.4	4769.7	4582.7	4434.2	4319.9	4328.4
12.5°	6509.1	6354.8	5933.6	5433.8	4946.8	4489.8	4081.4	3794.4	3641.5	3511.6	3521.6
15°	6516.3	6309.2	5762.2	5136.7	4524.1	3948.6	3453.1	3117.4	2910.3	2820.4	2821.8
17.5°	6522.0	6256.4	5582.3	4818.2	4105.7	3443.1	2904.7	2564.8	2369.1	2286.3	2287.8
20°	6503.4	6170.7	5359.5	4452.7	3668.7	2978.9	2457.7	2169.2	2020.7	1956.4	1956.4
22.5°	6479.1	6069.2	5108.1	4085.7	3237.4	2576.2	2137.8	1917.9	1832.2	1789.3	1787.9
25°	6490.6	5993.6	4851.1	3708.7	2840.4	2254.9	1925.0	1779.3	1722.2	1695.1	1693.6
27.5°	6551.9	5957.9	4614.0	3333.1	2493.4	2013.5	1782.2	1679.4	1642.2	1625.2	1625.2
30°	6663.4	5957.9	4367.0	3013.2	2204.9	1835.1	1672.2	1602.3	1576.6	1565.2	1565.2
32.5°	6857.6	5990.7	4128.5	2696.2	1975.0	1695.1	1580.8	1533.7	1513.8	1508.0	1508.0
35°	7191.7	6102.1	3895.7	2396.3	1789.3	1580.8	1493.7	1466.6	1452.4	1450.9	1455.2
37.5°	7661.5	6329.1	3677.3	2175.0	1658.0	1488.1	1420.9	1399.5	1390.9	1398.1	1403.7
40°	8252.8	6637.6	3478.8	1975.0	1558.0	1413.8	1353.8	1339.6	1335.3	1345.2	1353.8
42.5°	8966.8	7054.6	3315.9	1830.8	1480.9	1350.9	1296.7	1279.6	1275.3	1286.7	1298.1
45°	9739.3	7503.1	3201.7	1723.6	1420.9	1303.8	1246.7	1228.2	1219.6	1225.3	1238.1
47.5°	10442.0	7927.2	3156.0	1648.0	1363.8	1263.8	1202.4	1179.6	1165.3	1162.5	1172.4
50°	11034.6	8242.8	3177.4	1602.3	1318.1	1219.6	1159.6	1133.9	1112.5	1099.6	1106.8
52.5°	11465.9	8441.3	3197.4	1582.3	1282.4	1171.0	1112.5	1088.1	1059.6	1038.2	1038.2
55°	11778.7	8487.0	3153.2	1566.6	1255.3	1118.1	1059.6	1036.8	1008.2	983.9	981.1
57.5°	11901.5	8358.4	2989.0	1543.8	1236.7	1068.2	1003.9	986.8	962.5	934.0	932.5
60°	11735.8	7961.5	2671.9	1495.1	1212.4	1026.8	948.2	936.8	925.4	898.3	896.8
62.5°	11070.3	7090.3	2262.1	1396.7	1163.9	982.5	896.8	902.6	904.0	885.4	882.5
65°	9863.6	5893.6	1862.2	1268.1	1091.0	929.7	844.0	871.1	886.8	883.9	879.7
67.5°	8110.0	4586.9	1578.0	1132.5	995.4	856.8	786.9	818.3	831.1	841.1	838.3
70°	6019.3	3234.5	1305.3	989.7	879.7	771.1	712.6	728.3	719.7	731.2	735.5
72.5°	3355.9	1940.7	1063.9	846.9	759.8	671.2	629.8	626.9	608.4	608.4	608.4
74°	2013.5	1423.8	935.4	758.3	686.9	605.5	569.8	557.0	539.8	541.2	539.8
75°	1619.4	1223.9	858.2	699.8	635.5	566.9	531.3	514.1	501.3	501.3	499.8
77.5°	1022.5	929.7	691.2	557.0	508.3	467.0	442.7	419.8	419.8	418.5	417.0
80°	772.6	739.7	538.3	421.2	389.9	358.5	342.7	332.7	332.7	337.0	335.6
82.5°	529.8	557.0	378.4	294.2	278.4	255.6	252.7	254.2	249.9	244.2	242.8
85°	387.0	418.5	255.6	185.7	169.9	155.7	167.1	172.8	165.6	152.8	147.1
87.5°	148.5	274.2	137.1	77.1	71.4	61.4	71.4	74.2	79.9	62.9	64.3
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)