

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: P383447

Luminaire Tested: **GLEON-SA7C-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46608.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

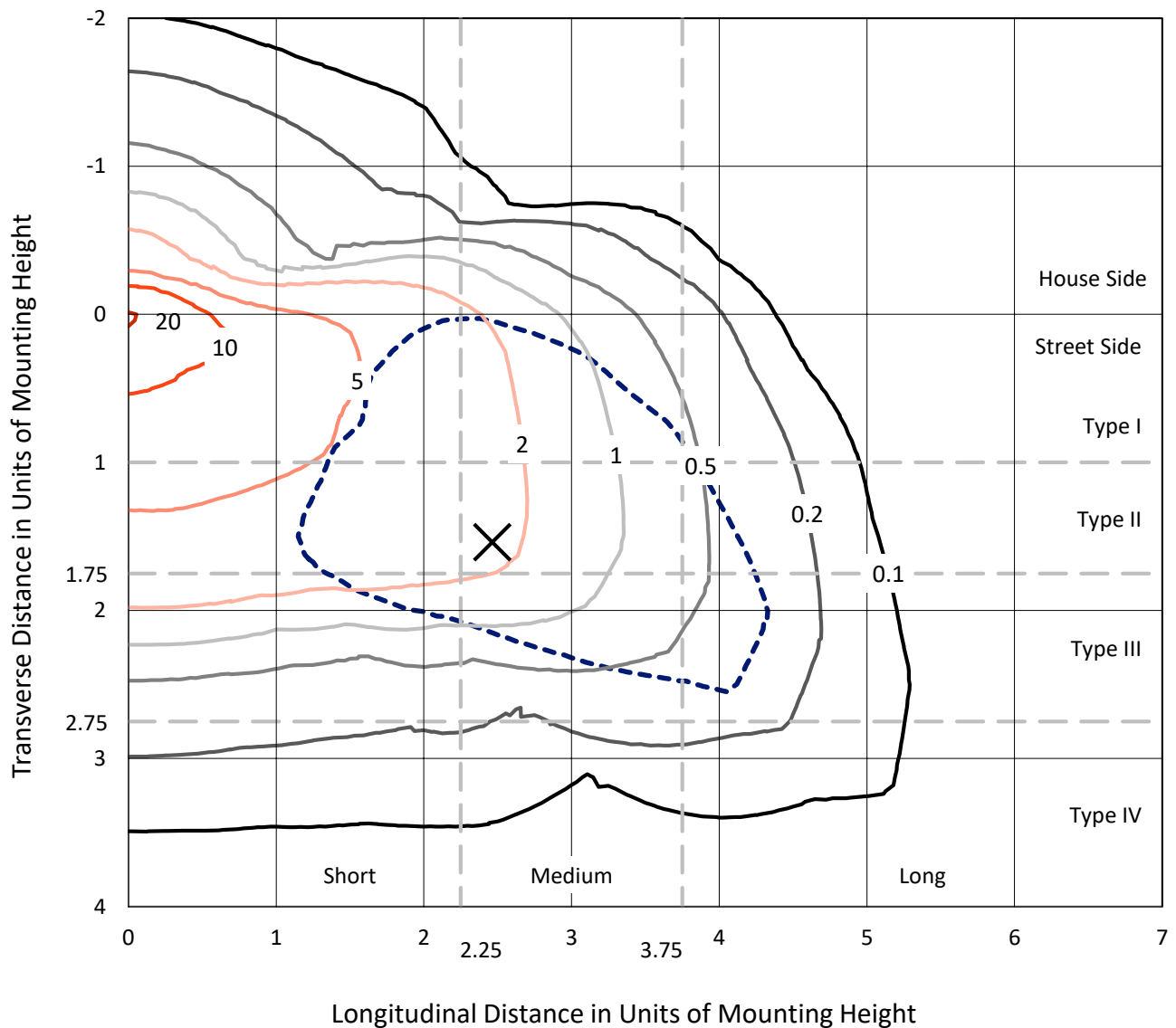
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

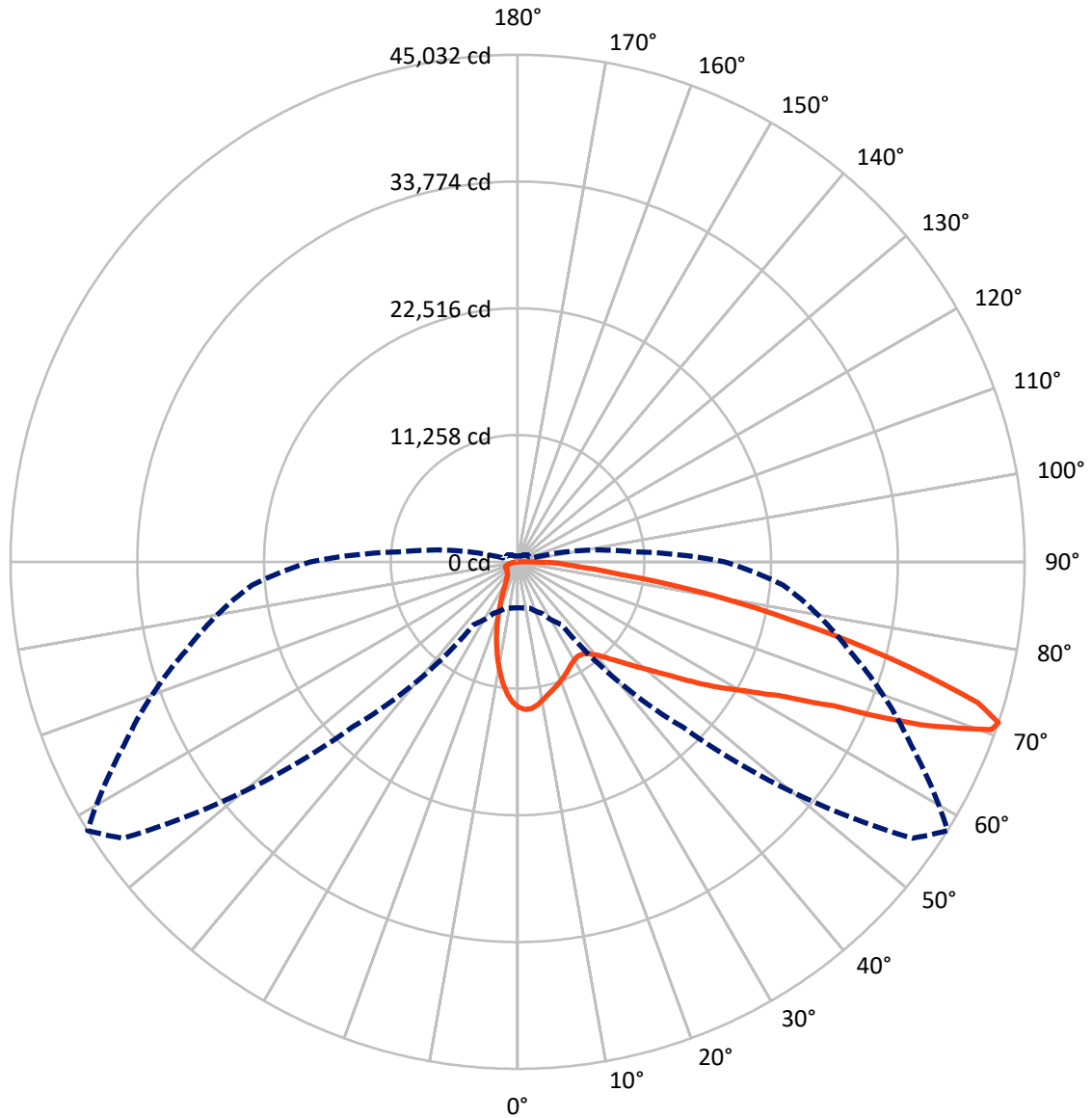
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6968.2	0.0	6968.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	39639.9	0.0	39639.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	46608.1	0.0	46608.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1114.1	2.4
10°-20°	2477.2	5.3
20°-30°	3148.3	6.8
30°-40°	4010.3	8.6
40°-50°	5686.8	12.2
50°-60°	8800.6	18.9
60°-70°	11980.8	25.7
70°-80°	7992.6	17.1
80°-90°	1397.4	3.0
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°	46608.1	100.0
0°-180°	46608.1	100.0

Coefficient of Utilization

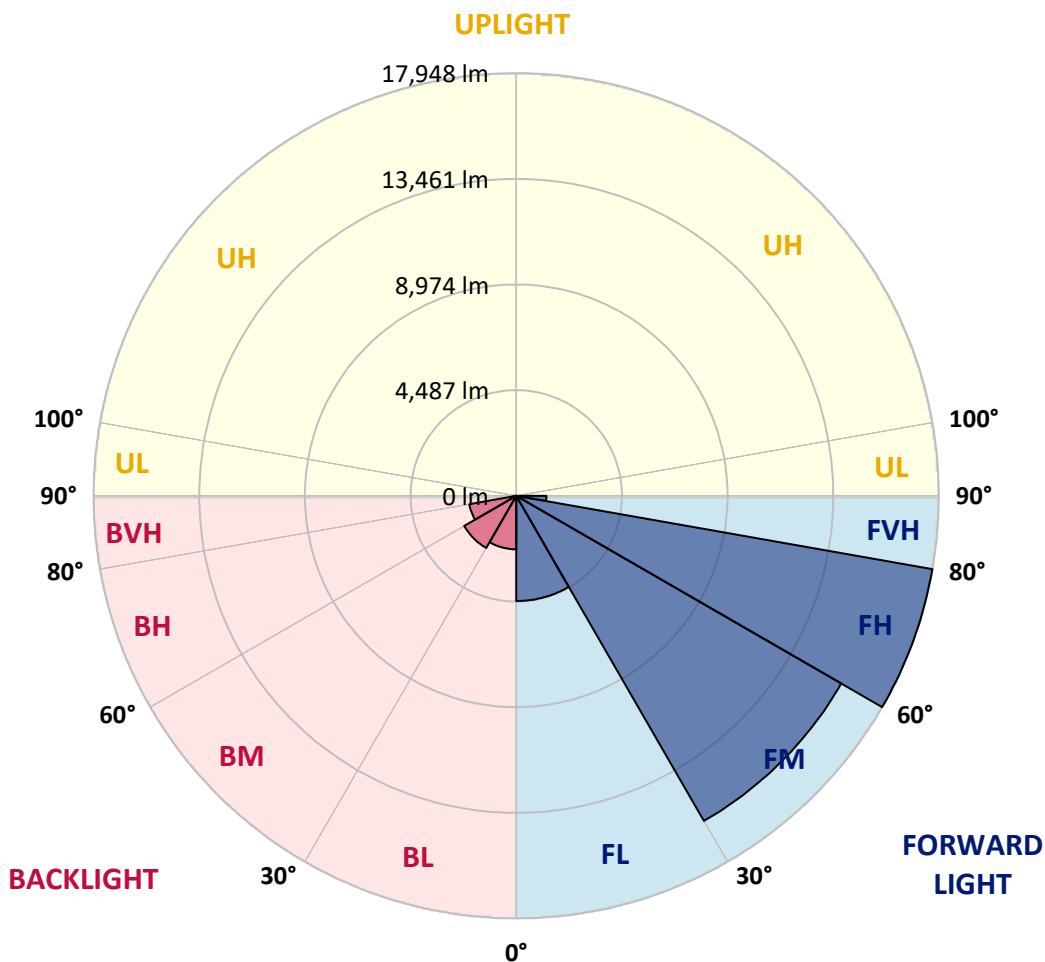


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4468.2	9.6			
FM (30°-60°)	15942.2	34.2			
FH (60°-80°)	17948.2	38.5			G5
FVH (80°-90°)	1281.3	2.7			G5
BL (0°-30°)	2271.4	4.9	B3/2500		
BM (30°-60°)	2555.4	5.5	B3/5000		
BH (60°-80°)	2025.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	116.1	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6
2.5°	13256.1	13238.3	13244.7	13231.8	13201.0	13170.1	13124.7	13132.8	13069.4	12975.2	12858.3
5°	13006.1	12999.7	13048.3	13075.9	13098.7	13080.8	13067.8	13084.1	12991.5	12861.6	12658.7
7.5°	12481.7	12410.3	12471.9	12564.5	12652.2	12718.7	12806.5	12817.8	12759.3	12622.9	12356.7
10°	11736.5	11668.3	11759.2	11903.7	12079.1	12238.2	12415.1	12447.6	12459.0	12335.6	12012.5
12.5°	10963.7	10911.8	11002.7	11205.6	11496.2	11741.4	12023.9	12072.6	12173.3	12090.5	11694.3
15°	10272.1	10252.6	10363.0	10562.7	10897.2	11272.2	11679.7	11769.0	11939.5	11911.9	11445.9
17.5°	9674.6	9669.7	9754.1	9963.6	10333.8	10807.8	11337.1	11488.1	11741.4	11773.8	11241.4
20°	9229.8	9220.0	9278.5	9432.8	9814.2	10351.6	10966.9	11174.8	11540.0	11653.7	11030.3
22.5°	8991.1	8989.5	8991.1	9064.1	9375.9	9875.9	10606.5	10859.8	11343.6	11557.9	10796.5
25°	8950.5	8945.7	8910.0	8901.8	9078.8	9478.2	10249.4	10528.6	11156.9	11491.4	10574.1
27.5°	9056.0	9062.6	9015.4	8939.1	8974.9	9216.8	9939.2	10238.0	11007.5	11478.3	10419.8
30°	9275.2	9272.0	9231.4	9151.8	9082.0	9119.4	9718.5	10017.2	10906.8	11535.2	10314.3
32.5°	9517.2	9535.0	9526.8	9483.1	9379.1	9229.8	9651.9	9944.1	10877.7	11671.5	10268.8
35°	9807.7	9827.3	9885.7	9919.8	9798.0	9557.8	9794.8	10048.0	10962.1	11928.1	10341.9
37.5°	10083.7	10134.1	10298.1	10442.6	10338.7	10070.8	10174.6	10354.9	11223.5	12332.4	10538.3
40°	10401.9	10445.8	10713.6	11020.5	11004.3	10726.7	10786.8	10906.8	11684.6	12911.9	10893.9
42.5°	10715.3	10803.0	11191.0	11626.1	11751.1	11506.0	11601.8	11665.0	12334.0	13679.9	11514.1
45°	11132.6	11226.7	11765.7	12290.1	12582.3	12444.4	12596.9	12621.4	13150.6	14725.4	12415.1
47.5°	11764.1	11871.3	12499.6	13050.0	13496.4	13511.0	13762.7	13752.9	14170.1	15922.0	13550.0
50°	12747.9	12902.2	13416.9	13931.5	14473.7	14775.7	15111.8	15064.7	15392.7	17196.5	14857.0
52.5°	14037.0	14108.5	14490.0	14869.9	15543.7	16220.7	16702.9	16660.6	16779.2	18506.6	16340.8
55°	15373.2	15426.8	15584.2	15792.1	16698.0	17802.1	18821.6	18755.0	18454.7	19867.1	17806.9
57.5°	16574.7	16683.4	16792.2	16878.2	17860.5	19454.8	20989.0	20993.9	20273.0	21334.9	19321.6
60°	16761.3	16857.1	17576.3	18255.0	19849.3	21659.5	23309.0	23260.4	22154.7	22927.5	21010.1
62.5°	14816.4	15032.3	16233.7	18039.0	21765.1	25692.4	26268.7	26208.6	24405.0	24890.4	22976.2
65°	10617.9	10863.1	12312.8	15025.8	20836.4	30135.9	31610.1	30801.6	27473.4	27304.5	25278.4
67.5°	6125.6	6184.0	6812.3	8991.1	15865.2	30368.2	39758.6	38627.1	32238.4	30043.4	26405.1
70°	4529.7	4528.1	4677.4	5533.0	8585.2	24784.8	43634.1	44648.7	37255.2	30944.5	24812.4
71°	4096.2	4101.0	4268.3	5036.2	6799.4	20745.5	42810.9	45031.8	38576.7	30499.6	23659.7
72.5°	3503.6	3519.9	3752.0	4516.7	5719.7	14306.5	39265.1	42733.0	39203.4	29402.2	21856.0
75°	2657.7	2695.1	3016.5	3807.1	5227.8	7255.5	28817.7	34123.3	34826.4	25944.1	16240.1
77.5°	1896.3	1938.5	2302.1	3201.6	4969.6	5468.1	19298.9	24890.4	25629.0	16626.5	7325.4
80°	1198.2	1248.5	1522.9	2547.3	4669.3	5192.1	12127.8	16730.5	13975.4	5320.3	1863.8
82.5°	702.9	742.0	944.9	1664.1	3813.7	5000.5	7135.4	9273.6	5438.8	1607.3	847.5
85°	407.6	425.3	589.3	1060.2	2769.8	4719.6	5242.4	5184.0	2360.6	785.8	401.0
87.5°	189.9	211.1	349.1	553.6	1537.5	3420.7	4143.2	3579.8	1467.7	368.5	188.4
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°	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6	12913.6
2.5°	12801.5	12773.9	12658.7	12556.4	12449.2	12309.7	12155.4	12135.9	12041.7	12059.6	12027.1
5°	12548.2	12478.5	12200.9	11949.1	11652.1	11385.8	11096.9	10963.7	10772.1	10759.1	10710.5
7.5°	12186.2	12056.4	11626.1	11148.8	10671.4	10216.8	9767.2	9471.7	9169.7	9041.4	9030.0
10°	11778.7	11557.9	10924.7	10218.5	9530.1	8866.1	8223.1	7747.5	7318.9	7115.9	7107.8
12.5°	11392.4	11065.9	10197.4	9236.3	8294.6	7434.1	6552.6	5927.5	5390.1	5209.9	5133.6
15°	11064.4	10604.9	9489.6	8260.5	7117.6	5922.7	4919.3	4261.7	3764.9	3592.9	3560.4
17.5°	10746.1	10155.2	8763.8	7275.0	5893.4	4580.0	3575.0	3086.3	2821.7	2751.9	2750.3
20°	10429.6	9692.5	8005.6	6266.8	4709.9	3425.7	2748.6	2529.4	2440.2	2432.1	2419.0
22.5°	10070.8	9202.2	7208.5	5255.3	3675.7	2693.5	2336.2	2248.6	2237.2	2266.5	2266.5
25°	9734.7	8715.1	6399.9	4265.0	2859.0	2247.0	2086.2	2068.4	2099.2	2151.2	2156.1
27.5°	9421.4	8245.9	5610.9	3385.1	2290.8	1979.1	1912.6	1933.6	1988.9	2048.9	2050.5
30°	9163.2	7802.7	4844.6	2667.5	1935.3	1779.3	1768.0	1810.3	1870.3	1917.4	1928.8
32.5°	8963.5	7424.4	4104.3	2144.7	1703.1	1630.0	1639.8	1675.5	1712.8	1738.8	1756.6
35°	8870.9	7099.7	3420.7	1808.6	1555.3	1514.8	1527.7	1547.2	1563.4	1583.0	1597.5
37.5°	8887.2	6848.1	2810.3	1599.2	1456.3	1435.2	1435.2	1435.2	1435.2	1444.9	1446.6
40°	9038.2	6703.6	2313.5	1466.1	1389.8	1367.0	1349.2	1333.0	1319.9	1326.4	1323.2
42.5°	9424.6	6690.6	1949.8	1381.7	1336.2	1298.9	1263.1	1240.4	1224.1	1230.7	1233.9
45°	10080.5	6852.9	1704.7	1321.6	1285.8	1229.0	1183.5	1159.2	1147.9	1168.9	1172.2
47.5°	10929.6	7206.8	1555.3	1277.7	1238.8	1164.1	1115.3	1092.6	1095.9	1126.7	1134.8
50°	12023.9	7781.6	1483.9	1250.1	1206.3	1108.9	1058.5	1039.0	1048.8	1092.6	1102.4
52.5°	13225.3	8609.5	1492.1	1242.0	1185.2	1068.3	1014.7	992.0	1008.2	1048.8	1056.9
55°	14611.8	9604.8	1626.8	1253.4	1154.4	1042.3	979.0	940.0	953.0	990.3	996.8
57.5°	16152.5	10744.6	1897.9	1250.1	1115.3	1018.0	941.6	883.2	893.0	915.7	922.1
60°	17756.6	12121.3	2318.4	1259.8	1097.5	988.7	891.3	818.3	815.0	834.5	837.7
62.5°	19682.1	13714.0	2798.9	1266.3	1108.9	951.4	824.8	753.3	743.6	748.4	751.7
65°	21666.0	14866.7	2618.8	1240.4	1144.6	920.6	766.3	690.0	672.1	668.9	670.5
67.5°	21727.7	13631.1	1836.2	1188.5	1159.2	904.3	722.5	636.4	607.2	595.8	594.2
70°	19485.6	11074.1	1430.3	1133.2	1100.7	878.4	681.9	592.6	548.8	530.9	529.3
71°	18391.4	10194.1	1355.7	1105.7	1056.9	852.4	664.0	573.1	527.6	508.2	504.9
72.5°	16675.3	9138.9	1264.8	1061.8	972.5	785.8	629.9	545.5	498.4	475.6	470.8
75°	11967.0	5976.3	1086.2	946.5	805.2	626.7	552.0	490.3	449.8	422.1	418.9
77.5°	4610.8	2378.4	821.5	787.4	617.0	490.3	454.6	423.8	394.5	366.9	365.3
80°	1425.5	1063.5	599.1	592.6	446.5	365.3	353.9	345.8	334.4	305.3	298.7
82.5°	761.4	610.4	412.4	383.1	292.2	243.5	256.5	259.8	261.4	230.6	227.3
85°	363.7	323.1	232.1	217.5	170.5	136.4	157.5	170.5	172.1	141.2	131.5
87.5°	173.7	168.9	108.8	82.8	63.3	45.5	55.2	68.2	74.7	53.6	47.0
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)