

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: P457306

Luminaire Tested: **GALN-SA8C-827-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA 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: 40850 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

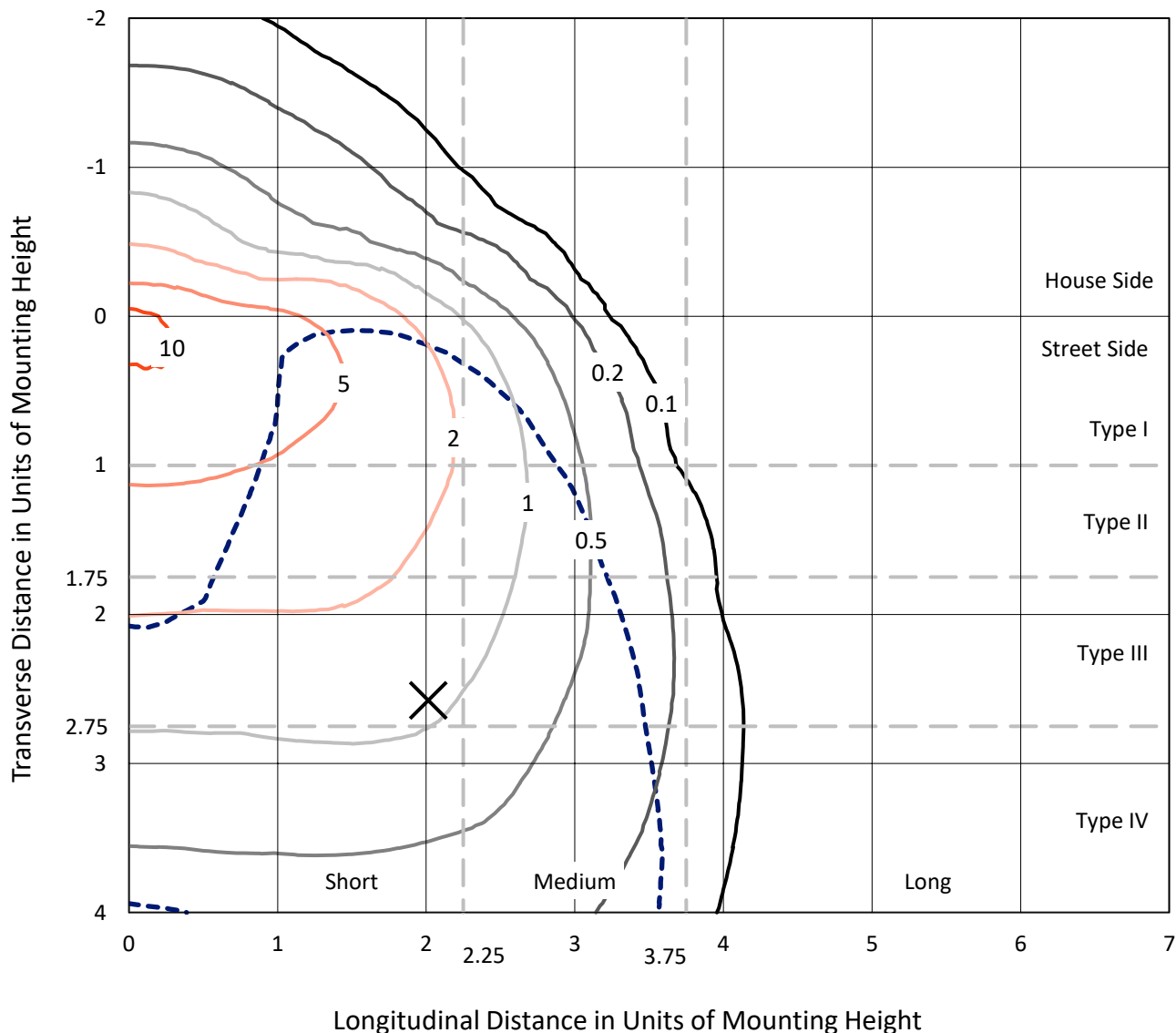
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

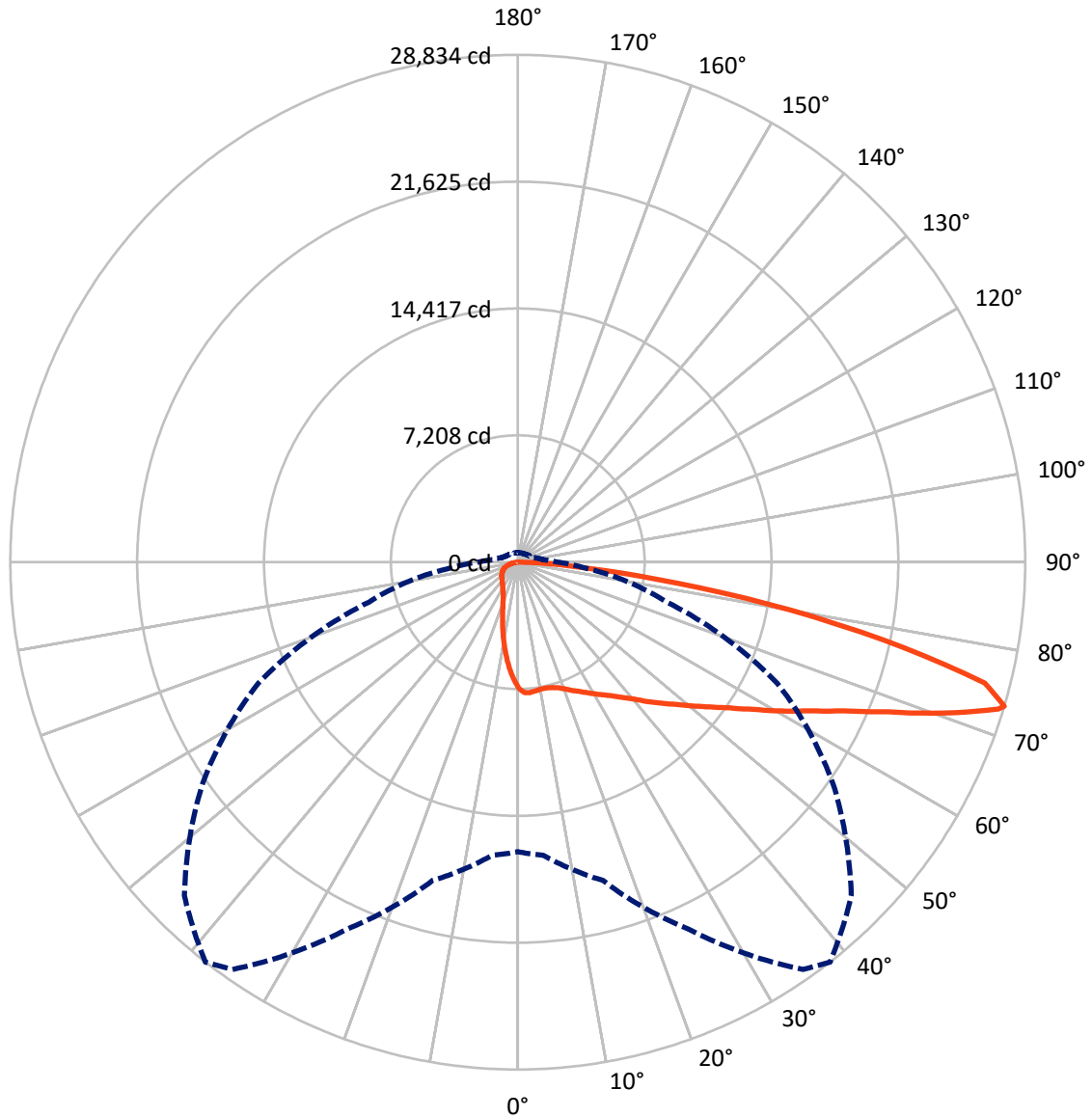
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5491.5	0.0	5491.5
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	35358.6	0.0	35358.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40850.0	0.0	40850.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	626.4	1.5
10°-20°	1606.4	3.9
20°-30°	2501.5	6.1
30°-40°	3669.1	9.0
40°-50°	5442.7	13.3
50°-60°	7711.2	18.9
60°-70°	9781.9	23.9
70°-80°	8142.7	19.9
80°-90°	1368.1	3.3
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°	40850.0	100.0
0°-180°	40850.0	100.0

**Coefficient of Utilization**



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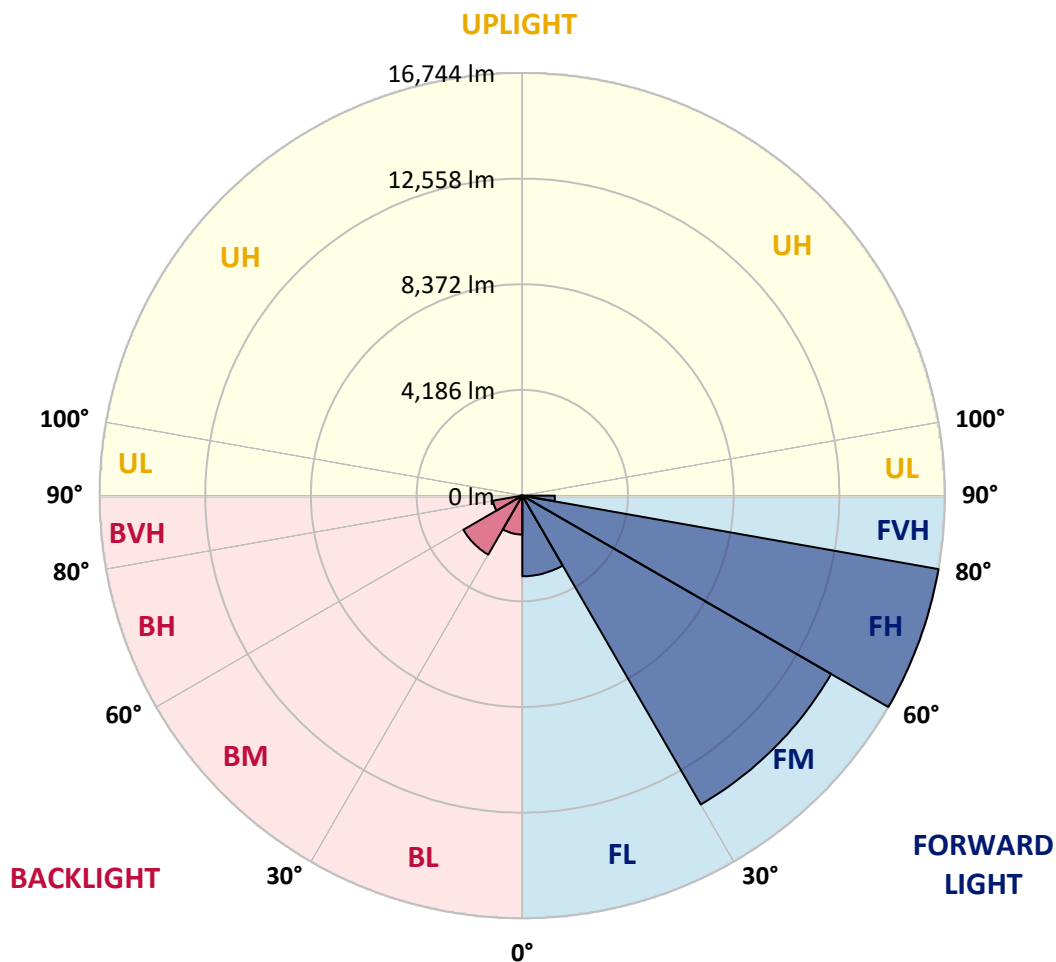
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3193.4	7.8			
FM	(30°-60°)	14127.0	34.6			
FH	(60°-80°)	16744.2	41.0			G5
FVH	(80°-90°)	1293.9	3.2			G5
BL	(0°-30°)	1541.0	3.8	B3/2500		
BM	(30°-60°)	2696.0	6.6	B3/5000		
BH	(60°-80°)	1180.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	74.2	0.2			G1/100
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°	38°	45°	55°	65°	75°	85°
0°	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7
2.5°	7465.0	7501.9	7483.5	7458.1	7441.9	7425.8	7402.7	7335.8	7282.8	7225.1	7135.1
5°	7520.4	7543.4	7527.3	7495.0	7458.1	7441.9	7398.1	7310.5	7225.1	7128.2	6994.4
7.5°	7488.1	7497.3	7478.9	7439.6	7407.3	7377.3	7326.6	7229.7	7125.9	7008.3	6832.9
10°	7372.7	7407.3	7407.3	7375.0	7342.7	7326.6	7275.8	7183.6	7089.0	6955.2	6747.6
12.5°	7278.2	7315.1	7345.1	7335.8	7333.5	7333.5	7294.3	7225.1	7114.4	6987.5	6740.7
15°	7213.6	7257.4	7322.0	7358.9	7382.0	7388.9	7372.7	7312.8	7199.7	7052.1	6768.3
17.5°	7199.7	7252.8	7370.4	7451.2	7511.1	7508.8	7504.2	7421.2	7296.6	7144.4	6802.9
20°	7262.0	7331.2	7495.0	7621.9	7709.5	7693.4	7668.0	7559.6	7414.3	7243.6	6835.2
22.5°	7448.9	7520.4	7700.3	7838.7	7924.1	7924.1	7847.9	7704.9	7550.4	7358.9	6879.1
25°	7716.5	7794.9	7986.4	8127.1	8166.3	8136.3	8060.2	7887.2	7709.5	7525.0	6971.3
27.5°	8044.0	8138.6	8316.2	8433.9	8422.4	8399.3	8320.9	8099.4	7921.8	7753.4	7128.2
30°	8452.3	8521.6	8706.1	8733.8	8692.3	8687.6	8576.9	8355.5	8189.4	8060.2	7352.0
32.5°	8837.6	8899.9	9047.5	9059.1	8985.2	8994.5	8890.7	8687.6	8593.1	8546.9	7728.0
35°	9245.9	9278.2	9405.1	9391.2	9342.8	9335.9	9294.4	9100.6	9130.6	9213.6	8260.9
37.5°	9587.3	9651.9	9723.4	9735.0	9732.7	9755.7	9783.4	9691.1	9864.1	10124.8	8959.9
40°	9901.1	9956.4	10062.5	10099.4	10189.4	10235.6	10330.1	10332.4	10731.5	11160.6	9820.3
42.5°	10113.3	10207.9	10406.3	10473.2	10692.3	10830.7	10971.4	11121.4	11700.4	12251.8	10835.3
45°	10297.8	10422.4	10752.3	10959.9	11257.5	11425.9	11723.5	12037.2	12870.0	13592.0	11866.5
47.5°	10577.0	10687.7	11066.0	11432.8	11882.7	12076.4	12521.7	12989.9	14078.8	14870.0	12853.8
50°	10964.5	11031.4	11416.7	12014.1	12588.6	12837.7	13425.9	14101.9	15370.6	16131.9	13721.2
52.5°	11460.5	11488.2	11795.0	12590.9	13347.5	13656.6	14436.4	15225.3	16501.0	17227.7	14408.7
55°	12046.4	12000.3	12240.2	13202.2	14214.9	14618.6	15456.0	16362.6	17772.1	18113.5	14909.3
57.5°	12625.5	12554.0	12745.4	13945.0	15285.3	15772.0	16747.8	17534.5	18907.1	18941.7	15259.9
60°	13239.1	13186.0	13414.4	14817.0	16597.9	17174.6	18076.6	18750.2	20005.1	19518.4	15315.3
62.5°	13868.9	13783.5	14108.8	15797.4	18076.6	18600.2	19474.5	20042.0	21082.4	19732.9	14782.4
65°	14480.2	14441.0	14943.9	16962.4	19760.6	20355.8	21204.7	21589.9	21945.2	19410.0	13460.5
67.5°	15130.7	15209.2	16011.9	18517.2	21956.7	22704.2	23620.0	23257.8	22192.0	17880.5	11335.9
70°	16122.7	16173.4	17414.5	20554.2	24787.2	25689.2	26132.2	23850.7	21001.7	14976.2	8521.6
72.5°	16549.4	16773.2	18667.1	22692.6	28003.0	28554.4	26976.5	22528.8	17495.3	10173.3	4477.6
73°	16454.9	16722.5	18724.8	23017.9	28254.5	28833.5	26796.5	21848.3	16263.4	8761.5	3838.6
75°	15276.1	15605.9	17975.1	22745.7	27765.4	27419.4	23903.7	18621.0	10989.9	3984.0	1748.6
77.5°	12053.4	12147.9	14242.6	18367.2	21864.5	21223.1	17889.7	11638.1	4489.2	1481.0	992.0
80°	6046.3	6394.6	8027.9	10521.6	14620.9	14411.0	11292.1	5504.2	1870.9	869.7	657.5
82.5°	2909.0	3155.8	3910.1	5130.5	8078.6	7887.2	5591.8	3008.2	1188.0	507.5	387.6
85°	1873.2	2057.7	2489.1	2447.6	3321.9	3171.9	2512.2	2276.9	703.6	265.3	269.9
87.5°	1236.5	1354.1	1624.0	1298.8	1208.8	1093.5	1109.6	1282.6	138.4	101.5	36.9
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°	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7	7176.7
2.5°	7098.2	7068.2	6969.0	6872.1	6779.9	6692.2	6634.5	6558.4	6507.7	6521.5	6542.3
5°	6920.6	6853.7	6678.4	6507.7	6346.2	6154.7	6000.2	5875.6	5781.0	5746.4	5739.5
7.5°	6733.7	6620.7	6369.3	6076.3	5801.8	5564.2	5289.6	5153.5	4994.4	4939.0	4920.5
10°	6620.7	6468.4	6115.5	5707.2	5294.3	4899.8	4602.2	4360.0	4140.8	4099.3	4078.5
12.5°	6588.4	6387.7	5912.5	5386.5	4837.5	4353.1	3912.4	3594.1	3381.9	3333.4	3261.9
15°	6569.9	6320.8	5723.3	5063.6	4366.9	3776.3	3312.7	2941.3	2747.5	2618.3	2620.6
17.5°	6553.8	6244.7	5511.1	4710.6	3960.9	3280.4	2768.2	2433.7	2256.1	2186.9	2180.0
20°	6530.7	6154.7	5266.6	4339.2	3497.2	2828.2	2364.5	2115.4	1995.4	1937.8	1935.5
22.5°	6521.5	6067.1	5026.7	3960.9	3086.6	2479.9	2096.9	1921.6	1845.5	1806.3	1806.3
25°	6544.6	6004.8	4775.2	3601.0	2722.1	2182.3	1912.4	1792.4	1748.6	1727.8	1720.9
27.5°	6616.1	5977.1	4526.1	3241.1	2387.6	1979.3	1787.8	1704.8	1672.5	1656.3	1658.6
30°	6752.2	5974.8	4281.5	2885.9	2138.5	1824.7	1688.6	1631.0	1605.6	1596.3	1594.0
32.5°	6971.3	6025.5	4041.6	2592.9	1928.5	1695.5	1596.3	1554.8	1543.3	1536.4	1534.1
35°	7342.7	6168.6	3804.0	2325.3	1767.1	1580.2	1508.7	1487.9	1471.8	1478.7	1481.0
37.5°	7843.3	6415.4	3577.9	2115.4	1644.8	1494.8	1434.9	1416.4	1407.2	1414.1	1421.0
40°	8514.6	6770.6	3388.8	1947.0	1557.1	1423.3	1370.3	1354.1	1344.9	1356.4	1358.7
42.5°	9255.1	7181.3	3231.9	1815.5	1485.6	1363.4	1312.6	1294.2	1287.2	1294.2	1296.5
45°	10016.4	7658.8	3151.2	1720.9	1425.6	1319.5	1266.5	1245.7	1229.6	1224.9	1231.9
47.5°	10766.1	8074.0	3148.9	1663.2	1377.2	1280.3	1222.6	1199.6	1178.8	1167.3	1165.0
50°	11377.5	8403.9	3204.2	1637.9	1335.7	1236.5	1178.8	1155.7	1128.1	1105.0	1109.6
52.5°	11838.8	8618.4	3229.6	1626.3	1312.6	1190.3	1132.7	1111.9	1079.6	1049.6	1049.6
55°	12136.4	8669.2	3167.3	1614.8	1294.2	1141.9	1079.6	1061.2	1028.9	998.9	998.9
57.5°	12237.9	8512.3	2943.6	1587.1	1275.7	1100.4	1026.6	1010.4	985.0	955.0	950.4
60°	12002.6	7981.7	2551.4	1504.1	1238.8	1056.5	968.9	962.0	952.7	927.4	925.1
62.5°	11096.0	6856.0	2124.6	1395.7	1176.5	1010.4	915.8	927.4	934.3	920.4	918.1
65°	9587.3	5566.5	1815.5	1245.7	1093.5	945.8	858.2	888.1	906.6	906.6	902.0
67.5°	7776.4	4274.6	1529.5	1116.5	989.6	858.2	793.6	816.6	830.5	825.9	837.4
70°	5527.2	2895.1	1245.7	968.9	858.2	759.0	710.5	710.5	701.3	696.7	696.7
72.5°	2680.6	1654.0	1010.4	809.7	731.3	648.2	609.0	592.9	574.4	572.1	560.6
73°	2240.0	1483.3	964.3	779.7	701.3	632.1	588.3	562.9	551.3	542.1	539.8
75°	1363.4	1125.7	805.1	657.5	597.5	544.4	505.2	482.1	470.6	463.7	461.4
77.5°	897.4	839.7	625.2	502.9	456.8	424.5	408.3	385.2	378.3	369.1	369.1
80°	669.0	641.3	447.5	355.3	327.6	299.9	295.3	290.7	272.2	260.7	256.1
82.5°	431.4	456.8	304.5	237.6	207.6	184.5	186.9	193.8	175.3	159.2	154.6
85°	306.8	329.9	184.5	108.4	87.7	76.1	85.4	76.1	78.4	62.3	50.8
87.5°	50.8	87.7	32.3	13.8	6.9	4.6	0.0	0.0	0.0	0.0	0.0
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)