

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: P457855

Luminaire Tested: **GALN-SA9B-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457855  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA 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: 42760 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

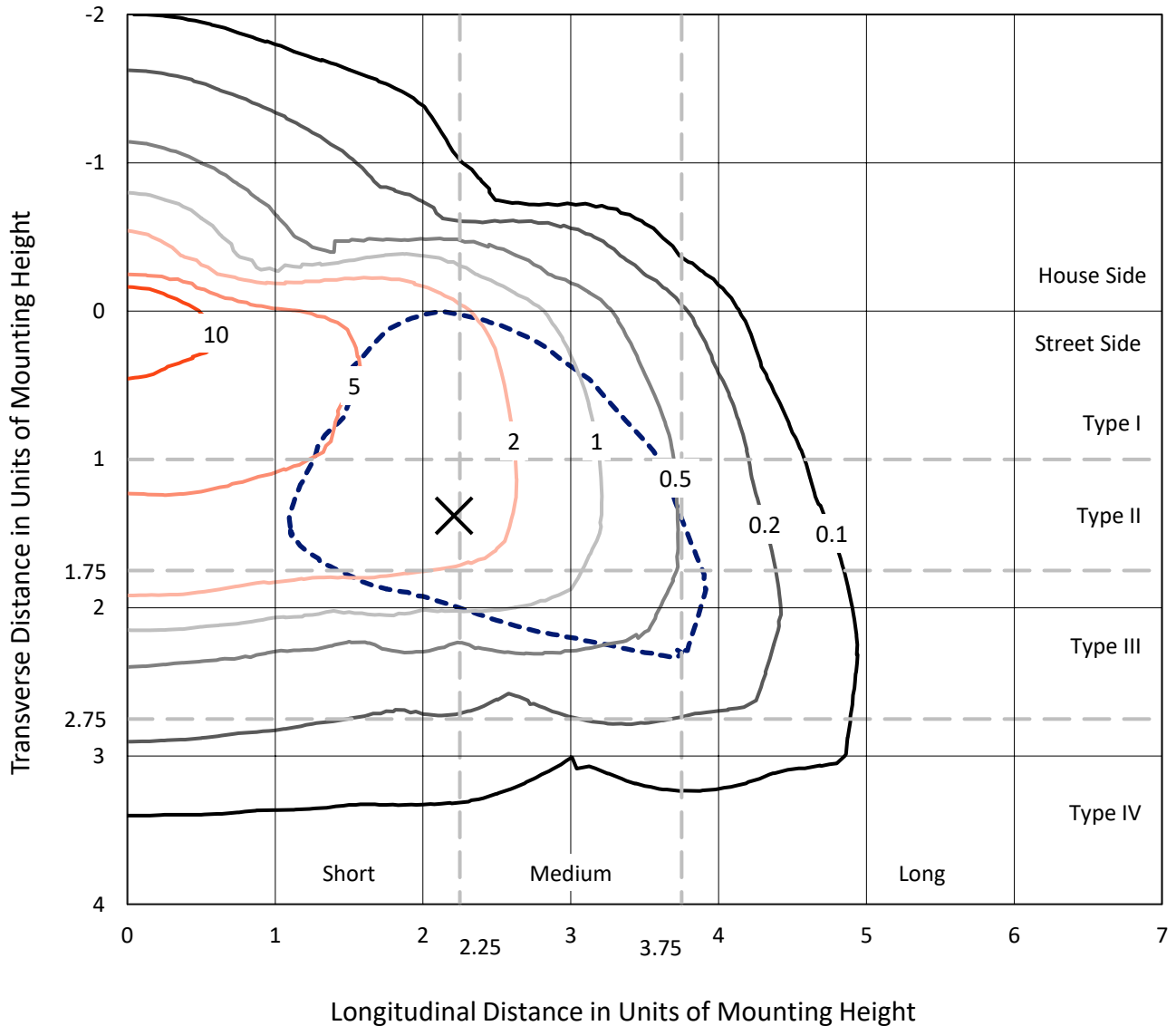
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

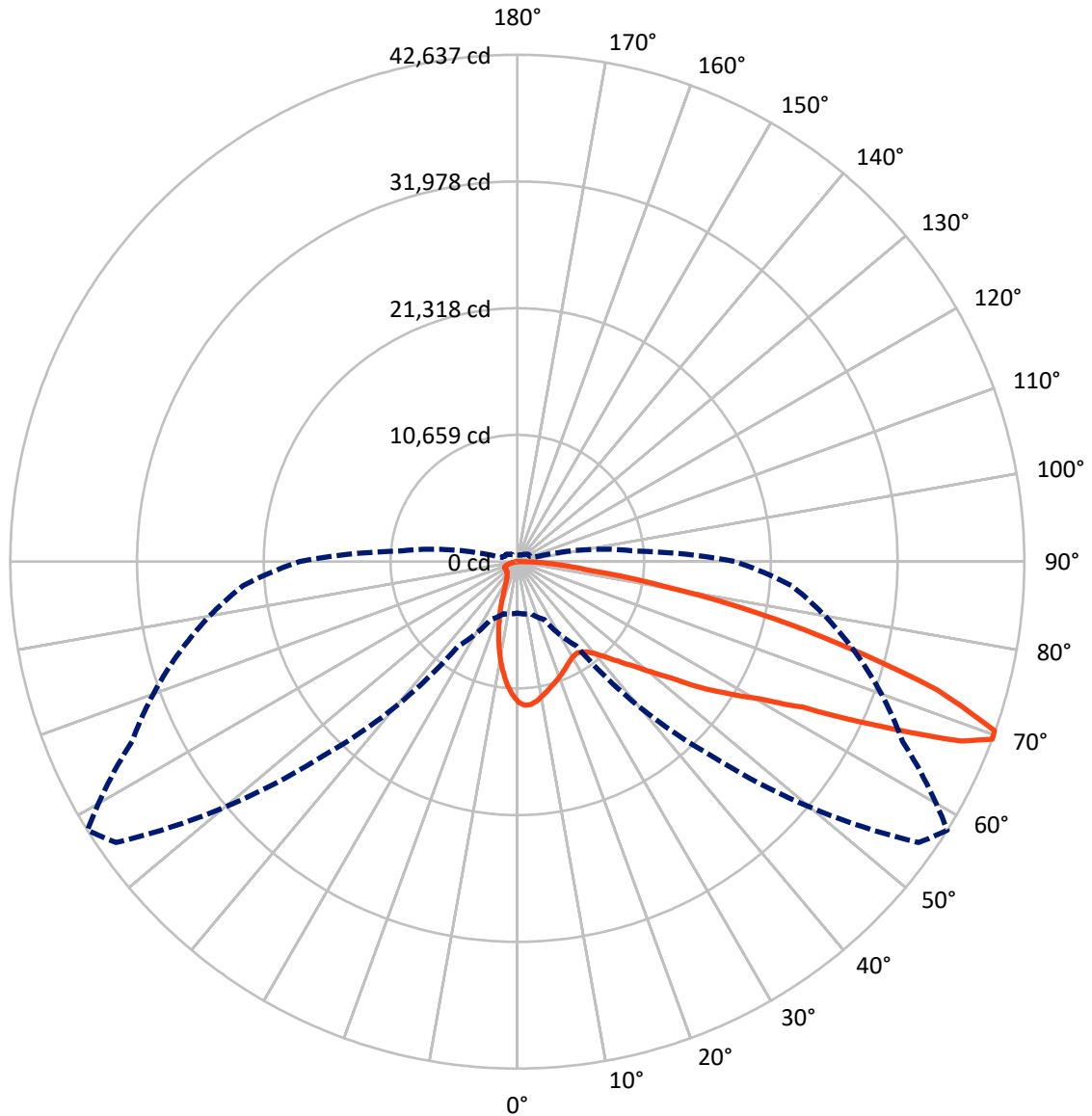
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6266.5	0.0	6266.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	36493.5	0.0	36493.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	42760.0	0.0	42760.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1003.5	2.3
10°-20°	2203.5	5.2
20°-30°	2847.0	6.7
30°-40°	3697.7	8.6
40°-50°	5375.8	12.6
50°-60°	8578.1	20.1
60°-70°	11459.3	26.8
70°-80°	6605.8	15.4
80°-90°	989.4	2.3
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°	42760.0	100.0
0°-180°	42760.0	100.0

**Coefficient of Utilization**



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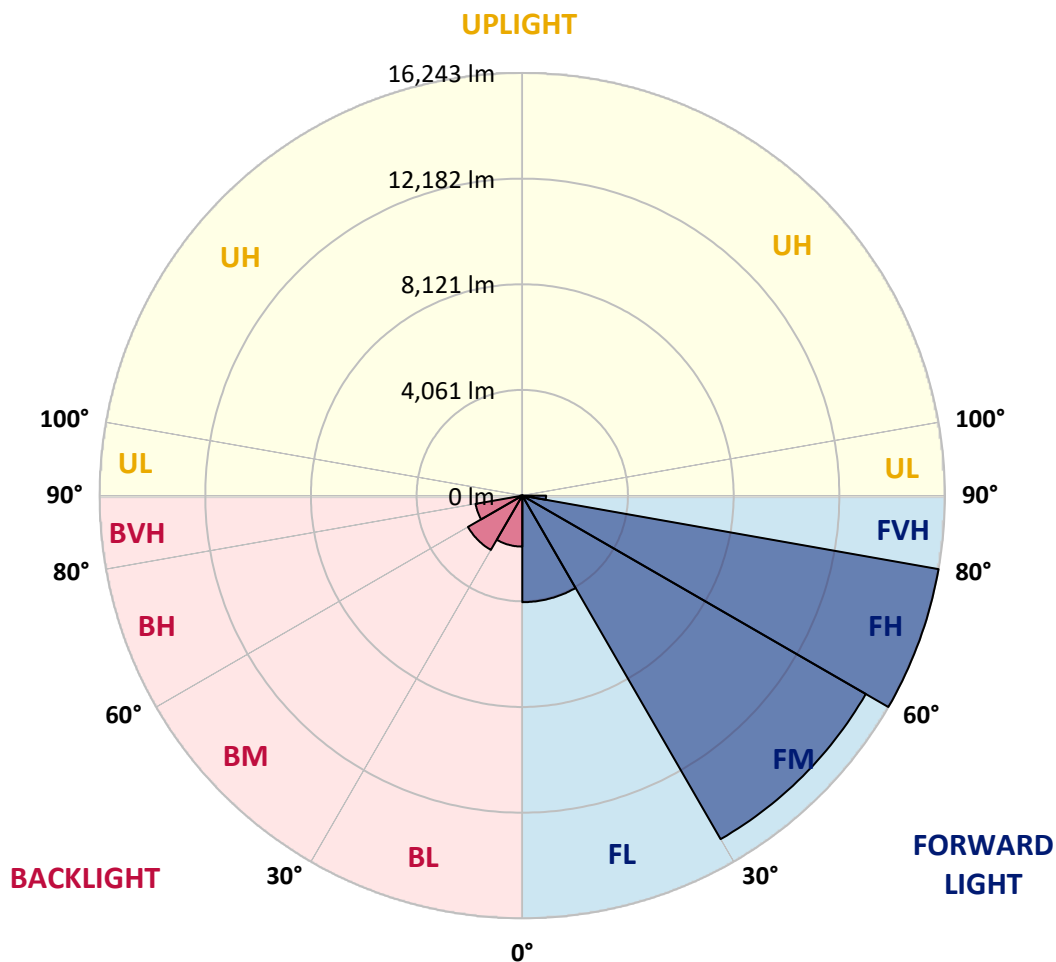
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4095.3	9.6			
FM	(30°-60°)	15241.7	35.6			
FH	(60°-80°)	16242.9	38.0			G5
FVH	(80°-90°)	913.6	2.1			G5
BL	(0°-30°)	1958.6	4.6	B3/2500		
BM	(30°-60°)	2409.9	5.6	B2/2500		
BH	(60°-80°)	1822.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	75.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4
2.5°	12255.2	12288.5	12279.0	12267.1	12248.0	12195.5	12109.7	12095.4	12040.5	11923.7	11778.2
5°	12066.8	12095.4	12097.8	12114.5	12138.3	12128.8	12066.8	12059.6	11978.5	11821.1	11577.9
7.5°	11420.5	11458.7	11542.1	11635.1	11718.6	11797.3	11816.4	11828.3	11778.2	11597.0	11272.6
10°	10693.2	10731.3	10769.5	10907.8	11112.9	11308.4	11470.6	11492.0	11504.0	11337.0	10941.2
12.5°	9887.1	9965.8	10046.9	10252.0	10526.2	10833.8	11120.0	11165.3	11246.4	11120.0	10655.0
15°	9202.7	9283.8	9400.6	9584.2	9915.7	10359.3	10762.3	10836.2	10996.0	10931.6	10387.9
17.5°	8728.1	8756.7	8837.8	9047.7	9405.4	9872.8	10411.8	10559.6	10814.8	10798.1	10159.0
20°	8353.7	8389.5	8439.6	8568.4	8940.4	9434.0	10085.0	10275.8	10621.6	10678.8	9932.4
22.5°	8196.3	8222.6	8215.4	8284.6	8537.4	9033.4	9753.6	9980.1	10449.9	10597.8	9722.6
25°	8205.9	8229.7	8193.9	8177.3	8327.5	8680.4	9407.8	9696.3	10311.6	10542.9	9531.8
27.5°	8365.6	8382.3	8315.6	8248.8	8260.7	8461.0	9121.6	9441.2	10194.7	10566.8	9372.0
30°	8580.3	8611.3	8568.4	8487.3	8399.0	8408.6	8938.0	9252.8	10139.9	10650.2	9295.7
32.5°	8856.9	8885.5	8866.4	8802.1	8687.6	8561.2	8892.7	9183.6	10144.7	10819.5	9279.0
35°	9147.8	9205.1	9236.1	9231.3	9138.3	8918.9	9071.5	9312.4	10259.1	11103.3	9376.8
37.5°	9476.9	9524.6	9658.2	9744.0	9658.2	9403.0	9474.6	9641.5	10511.9	11513.5	9591.4
40°	9796.5	9868.0	10063.6	10330.7	10297.3	10073.1	10089.8	10199.5	10957.9	12124.0	10011.1
42.5°	10130.4	10216.2	10557.2	10953.1	11031.8	10857.7	10903.0	11000.8	11592.2	12970.6	10731.3
45°	10559.6	10662.1	11081.9	11575.5	11885.5	11778.2	11907.0	11954.7	12441.2	14072.3	11680.4
47.5°	11112.9	11232.1	11749.6	12364.8	12803.6	12901.4	13125.6	13097.0	13492.8	15376.8	12911.0
50°	12045.3	12112.1	12600.9	13228.1	13831.5	14272.6	14515.9	14561.2	14797.3	16645.4	14286.9
52.5°	13154.2	13213.8	13566.8	14115.2	14871.2	15806.0	16407.0	16259.1	16316.4	18190.8	15896.6
55°	14401.4	14501.6	14725.7	15090.6	16070.7	17446.7	18653.4	18689.2	18054.8	19669.3	17439.6
57.5°	15367.2	15536.5	15920.5	16440.4	17682.8	19271.0	20892.7	20916.5	20105.7	21248.0	19142.3
60°	14880.7	15081.1	15958.6	17224.9	19798.1	22454.7	23568.3	23432.4	22101.7	23046.1	21219.4
62.5°	12782.2	12817.9	14093.8	16073.1	20449.1	26713.8	27550.8	26976.1	24765.5	25325.9	23329.9
65°	8272.6	8506.3	9517.5	12290.9	18310.0	29077.1	34528.6	33200.3	28500.0	27913.3	25096.9
67.5°	5222.6	5163.0	5582.7	7018.3	12593.8	26995.2	40483.3	40273.4	33383.9	29546.9	24674.9
69°	4330.7	4397.5	4540.5	5380.0	8666.1	23048.5	41186.8	42636.7	35751.9	29418.1	23141.5
70°	3927.7	3958.7	4108.9	4769.5	6686.8	19304.4	40032.5	42572.3	36682.0	28879.1	22030.2
72.5°	3116.8	3114.5	3372.0	3968.2	4998.4	11019.9	32871.2	36961.0	35642.2	26370.4	18202.7
75°	2368.0	2406.2	2690.0	3357.7	4604.9	6021.5	22938.8	28464.2	28466.6	20828.3	11358.5
77.5°	1707.5	1731.3	2062.8	2818.8	4337.8	4881.6	15279.0	20415.7	19192.3	9543.7	3569.9
80°	1118.4	1132.7	1385.5	2232.1	3911.0	4604.9	9059.6	12496.0	9052.5	2532.6	1180.4
82.5°	612.9	684.4	846.6	1445.1	3138.3	4254.4	5506.4	6324.3	3395.9	1128.0	615.3
85°	307.6	326.7	476.9	844.2	2050.9	3519.9	3834.7	3627.2	1752.8	560.4	319.6
87.5°	90.6	114.5	197.9	326.7	832.3	1833.9	2134.3	1914.9	674.9	202.7	66.8
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°	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4	11816.4
2.5°	11718.6	11675.7	11484.9	11313.2	11155.8	10988.9	10848.2	10724.2	10736.1	10738.5	10612.1
5°	11451.5	11353.7	10991.2	10652.6	10366.4	10004.0	9693.9	9493.6	9393.5	9259.9	9307.6
7.5°	11089.0	10900.6	10397.4	9834.6	9307.6	8837.8	8327.5	7976.9	7752.8	7535.8	7564.4
10°	10714.6	10411.8	9679.6	8935.6	8253.6	7502.4	6851.3	6293.3	5878.4	5723.4	5620.8
12.5°	10330.7	9932.4	9002.4	8012.7	7070.7	6171.7	5248.8	4650.2	4192.4	3949.1	3980.1
15°	9980.1	9496.0	8296.5	7089.8	5866.4	4795.7	3875.2	3305.2	2985.7	2918.9	2957.1
17.5°	9655.8	9021.5	7635.9	6193.2	4764.7	3596.2	2911.8	2589.8	2461.0	2425.3	2422.9
20°	9321.9	8618.4	6894.3	5234.5	3713.0	2787.8	2389.5	2239.3	2215.4	2229.7	2232.1
22.5°	8983.3	8120.0	6131.2	4283.0	2957.1	2279.8	2089.0	2048.5	2067.6	2101.0	2105.7
25°	8670.9	7681.2	5396.7	3448.3	2360.9	2003.2	1910.2	1910.2	1953.1	2003.2	2005.6
27.5°	8413.3	7256.7	4664.5	2737.7	1976.9	1802.9	1771.9	1788.6	1848.2	1886.3	1888.7
30°	8201.1	6860.9	3973.0	2194.0	1738.5	1643.1	1635.9	1664.5	1707.5	1743.2	1745.6
32.5°	8041.3	6512.7	3326.7	1843.4	1573.9	1521.5	1519.1	1540.5	1564.4	1573.9	1583.5
35°	7979.3	6224.2	2735.3	1621.6	1464.2	1430.8	1430.8	1428.5	1438.0	1442.8	1447.5
37.5°	8029.4	6002.4	2277.4	1478.5	1383.1	1359.3	1345.0	1330.7	1325.9	1325.9	1328.3
40°	8241.6	5885.5	1936.4	1385.5	1325.9	1290.1	1263.9	1247.2	1230.5	1235.3	1240.1
42.5°	8692.4	5907.0	1705.1	1323.5	1275.8	1225.8	1187.6	1168.5	1156.6	1170.9	1168.5
45°	9410.2	6121.6	1557.2	1280.6	1225.8	1161.4	1125.6	1106.5	1106.5	1128.0	1135.1
47.5°	10414.1	6531.8	1478.5	1247.2	1187.6	1111.3	1075.5	1061.2	1066.0	1101.7	1104.1
50°	11639.9	7244.8	1464.2	1230.5	1168.5	1075.5	1035.0	1020.7	1032.6	1070.7	1075.5
52.5°	12992.0	8162.9	1533.4	1232.9	1151.8	1054.1	1001.6	980.1	992.0	1023.1	1032.6
55°	14594.6	9312.4	1712.2	1242.4	1128.0	1042.1	977.7	930.0	944.4	965.8	968.2
57.5°	16230.5	10762.3	2027.0	1244.8	1108.9	1020.7	937.2	875.2	875.2	889.5	896.7
60°	18228.9	12341.0	2442.0	1247.2	1111.3	989.7	882.4	813.2	803.7	810.8	813.2
62.5°	20213.0	13662.1	2511.1	1240.1	1135.1	958.7	822.7	751.2	734.5	732.1	727.3
65°	21088.2	13416.5	2058.0	1206.7	1161.4	939.6	775.0	691.6	663.0	653.4	653.4
67.5°	19662.1	11349.0	1547.7	1161.4	1144.7	920.5	729.7	641.5	608.1	589.0	589.0
69°	18321.9	10094.6	1390.3	1130.4	1101.7	889.5	701.1	615.3	574.7	553.3	546.1
70°	17286.9	9231.3	1323.5	1104.1	1061.2	853.7	679.6	596.2	550.9	527.0	522.3
72.5°	13795.7	7242.4	1159.0	1004.0	903.8	717.8	603.3	536.6	493.6	467.4	460.3
75°	7950.7	3925.3	961.0	872.8	727.3	558.0	510.3	467.4	434.0	410.2	403.0
77.5°	2446.7	1516.7	696.3	689.2	534.2	431.6	407.8	391.1	367.2	341.0	336.2
80°	1030.2	772.7	472.2	465.0	355.3	300.5	293.3	290.9	281.4	259.9	252.8
82.5°	565.2	436.4	329.1	286.2	214.6	174.1	181.2	183.6	176.5	155.0	140.7
85°	276.6	238.5	159.8	128.8	97.8	62.0	59.6	71.5	66.8	47.7	52.5
87.5°	54.8	66.8	42.9	19.1	9.5	0.0	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)