

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: P459303

Luminaire Tested: **GALN-SA7D-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50103 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

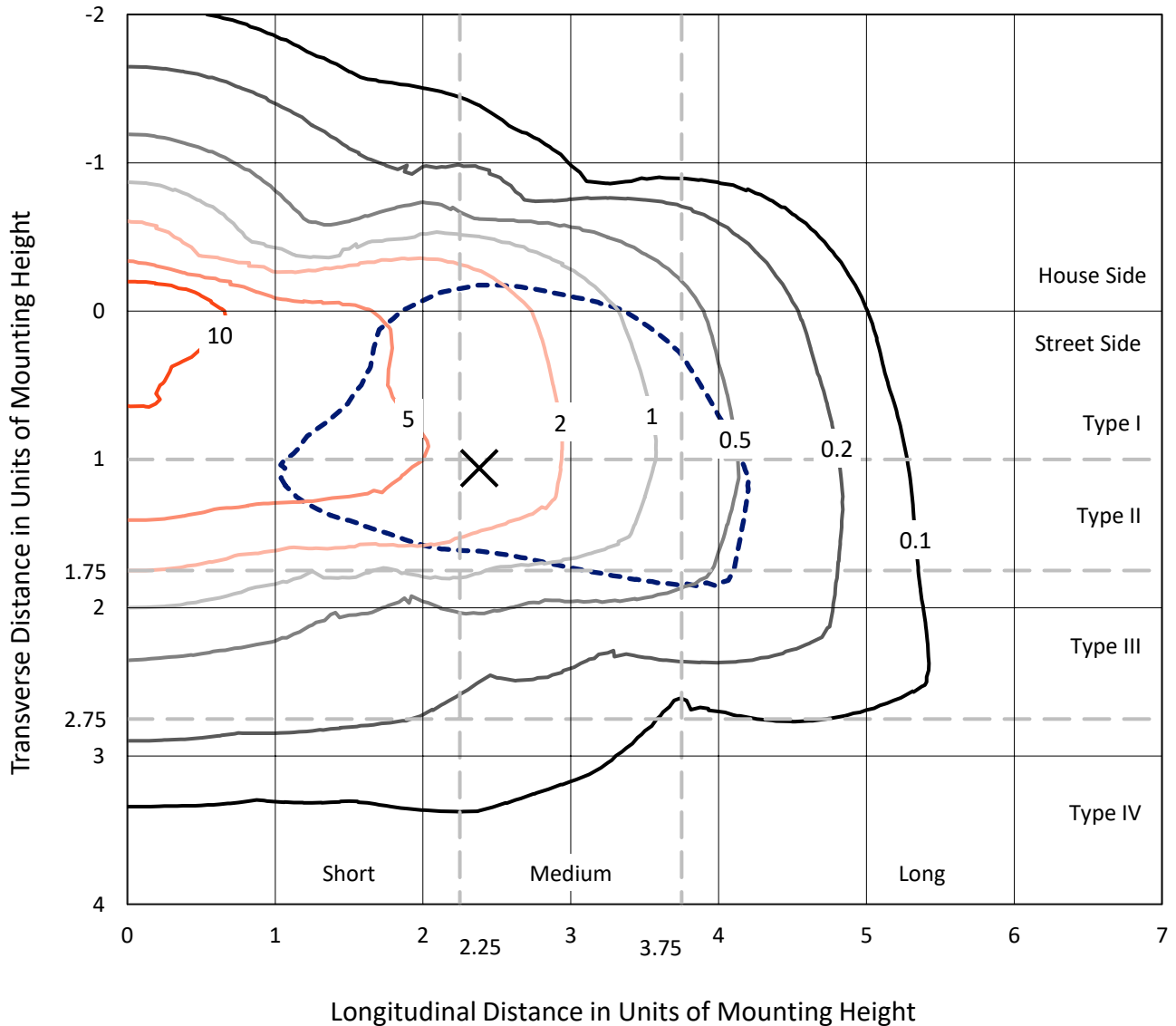
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

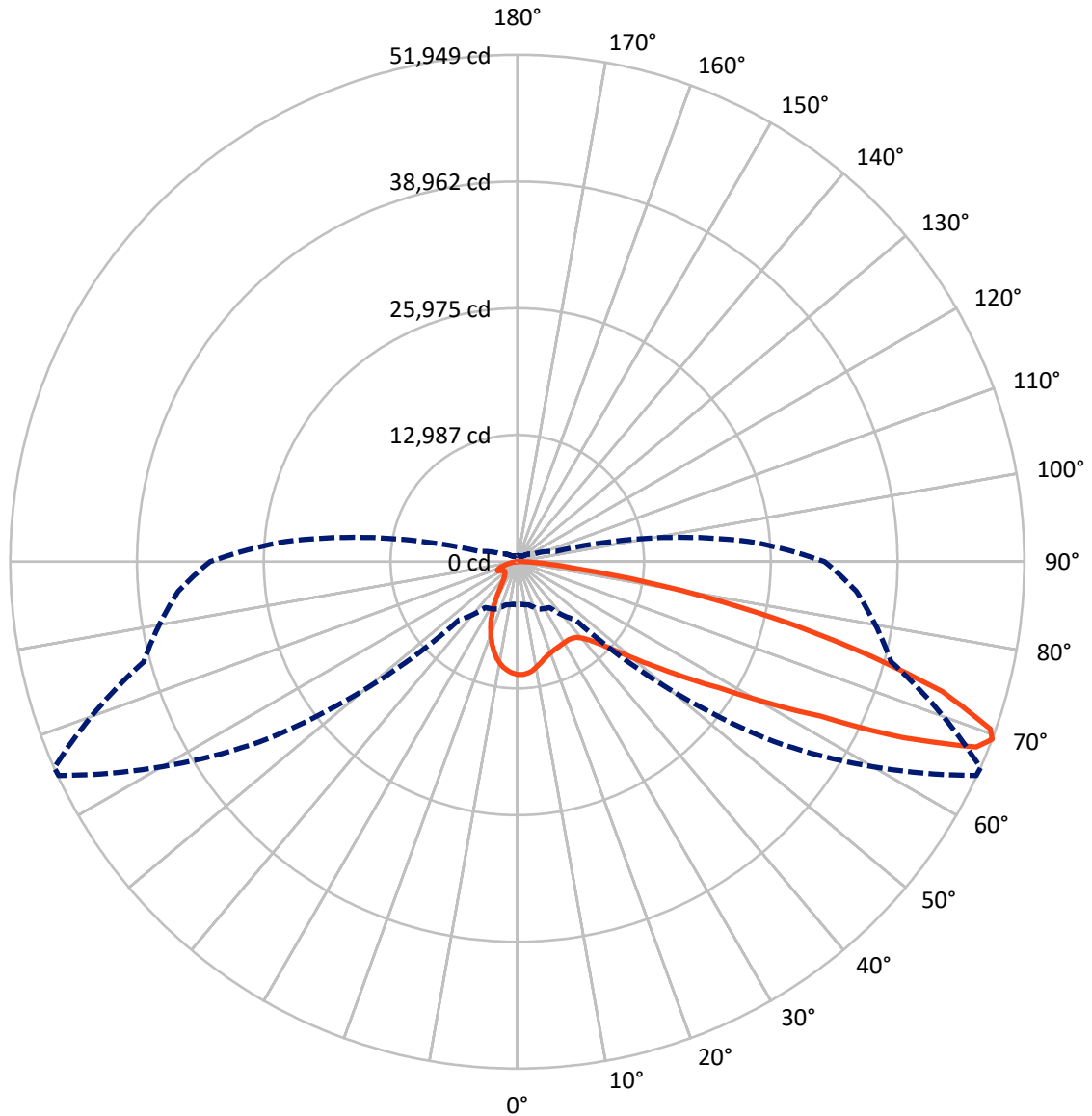
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9422.5	0.0	9422.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40680.5	0.0	40680.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	50103.0	0.0	50103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1004.7	2.0
10°-20°	2383.2	4.8
20°-30°	3244.4	6.5
30°-40°	4359.7	8.7
40°-50°	6509.8	13.0
50°-60°	10354.9	20.7
60°-70°	12736.0	25.4
70°-80°	8286.6	16.5
80°-90°	1223.7	2.4
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°	50103.0	100.0
0°-180°	50103.0	100.0

Coefficient of Utilization



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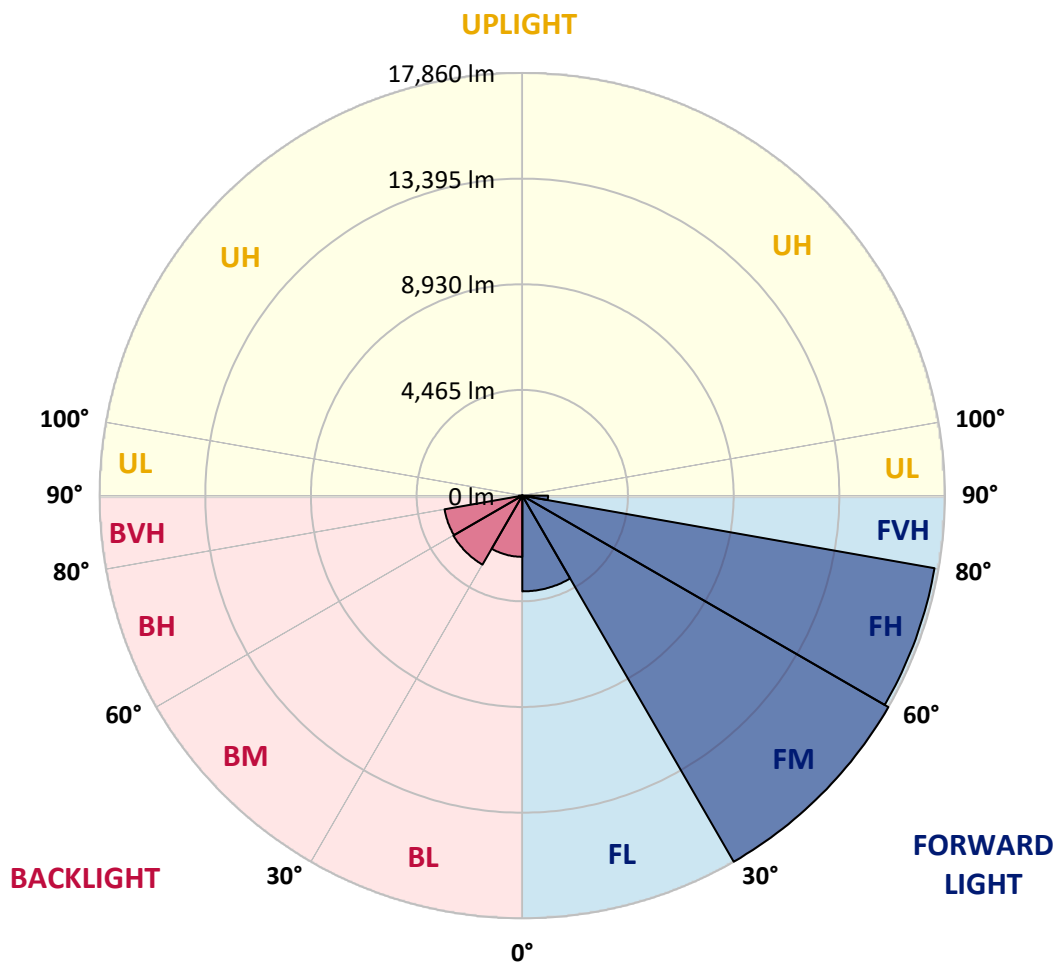
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4045.8	8.1			
FM	(30°-60°)	17860.2	35.6			
FH	(60°-80°)	17686.6	35.3			G5
FVH	(80°-90°)	1087.9	2.2			G5
BL	(0°-30°)	2586.5	5.2	B4/5000		
BM	(30°-60°)	3364.2	6.7	B3/5000		
BH	(60°-80°)	3336.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	135.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2
2.5°	11165.1	11209.5	11259.4	11314.9	11420.3	11478.6	11520.2	11567.4	11572.9	11597.9	11578.5
5°	10341.0	10393.7	10468.6	10574.1	10732.2	10979.2	11234.4	11442.5	11467.5	11584.0	11617.3
7.5°	9652.9	9683.4	9744.5	9913.7	10138.5	10413.2	10785.0	11206.7	11267.7	11545.2	11642.3
10°	9092.4	9123.0	9195.1	9369.9	9591.9	9935.9	10343.8	10898.7	10948.7	11425.9	11647.9
12.5°	8673.5	8701.2	8778.9	8950.9	9206.2	9528.1	9977.5	10565.8	10637.9	11267.7	11595.1
15°	8354.4	8407.1	8470.9	8612.4	8881.6	9192.3	9627.9	10260.6	10318.8	11101.3	11559.1
17.5°	8218.4	8243.4	8287.8	8418.2	8615.2	8920.4	9358.8	10021.9	10091.3	10984.7	11550.8
20°	8224.0	8249.0	8257.3	8329.4	8470.9	8734.5	9167.4	9833.3	9916.5	10882.1	11564.6
22.5°	8412.7	8415.4	8384.9	8359.9	8415.4	8634.6	9031.4	9691.8	9788.9	10837.7	11575.7
25°	8704.0	8753.9	8709.5	8593.0	8490.3	8595.8	8978.7	9614.1	9705.6	10773.9	11561.9
27.5°	9175.7	9184.0	9147.9	8989.8	8723.4	8645.7	8956.5	9555.8	9633.5	10726.7	11492.5
30°	9808.3	9783.3	9750.0	9575.2	9156.3	8837.2	9003.6	9503.1	9583.5	10657.3	11409.2
32.5°	10449.2	10526.9	10496.4	10291.1	9747.2	9209.0	9156.3	9497.5	9564.1	10604.6	11317.7
35°	11129.0	11165.1	11309.4	11203.9	10646.2	9811.1	9442.0	9583.5	9636.3	10607.4	11253.9
37.5°	11661.7	11758.8	12097.4	12188.9	11664.5	10607.4	9905.4	9827.7	9849.9	10743.3	11278.8
40°	12305.4	12471.9	12907.5	13282.1	12938.1	11642.3	10693.4	10280.0	10307.7	11070.7	11442.5
42.5°	13121.2	13237.7	13823.2	14330.9	14275.4	13010.2	11647.9	11020.8	11034.7	11722.8	11900.4
45°	14075.7	14242.1	14899.7	15662.7	15793.1	14558.4	13026.9	12141.7	12133.4	12735.5	12754.9
47.5°	15296.5	15399.2	16051.2	16883.6	17410.8	16503.5	14699.9	13751.0	13662.2	14211.6	14053.5
50°	16420.2	16581.1	17075.0	17985.1	19297.5	18781.4	16900.2	15837.5	15629.4	16142.8	15876.4
52.5°	16891.9	17061.2	17477.3	18606.6	20915.1	21728.1	19694.3	18326.4	17979.6	18373.5	18276.4
55°	16073.4	16292.6	16681.0	18054.5	21625.4	25127.0	23462.2	21203.7	20951.2	20781.9	20809.7
57.5°	13873.1	14081.2	14605.6	16120.6	20776.4	27593.6	28842.2	24902.2	24361.2	23581.5	23714.7
60°	10560.2	10690.6	10962.5	12641.2	18259.8	28234.6	34951.9	29577.5	29233.4	26370.0	26464.3
62.5°	7499.8	7646.9	7835.5	8673.5	13368.1	26428.3	39735.4	36106.2	34877.0	29258.4	29166.8
65°	6090.3	5990.4	6217.9	6609.2	7843.9	20482.3	40811.9	45168.1	43475.6	33062.4	31791.6
67.5°	5008.2	4902.8	5127.5	5823.9	5965.4	11889.3	36933.0	51050.3	50711.8	37199.4	34458.0
69°	4433.8	4378.4	4575.4	5368.9	5726.8	8443.2	32174.5	51868.8	51949.3	39638.3	34868.7
70°	3995.5	4017.7	4209.1	5138.6	5618.6	6961.5	27499.3	50739.5	51422.1	40856.3	34424.7
72.5°	2941.1	2988.3	3254.6	4256.3	5515.9	5907.2	16364.7	44319.0	45526.0	40928.5	31492.0
75°	2056.0	2033.8	2269.6	3204.7	5210.7	5854.5	9611.3	34274.9	35642.8	35376.4	26461.6
77.5°	1345.7	1381.8	1570.4	2264.1	4383.9	5810.1	6265.1	24316.8	25204.7	23659.2	15651.6
80°	948.9	946.1	1051.6	1545.5	3251.9	5582.5	5130.3	15327.0	15102.3	9297.8	4641.9
82.5°	543.8	582.7	704.8	1087.7	2175.3	4913.9	4719.6	7330.6	6692.4	2649.8	1567.7
85°	302.4	316.3	419.0	657.6	1270.8	3701.3	4120.3	3335.1	3146.4	1107.1	674.2
87.5°	97.1	105.4	174.8	333.0	577.1	1748.0	2333.5	1539.9	1420.6	399.5	271.9
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°	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2	11570.2
2.5°	11586.8	11620.1	11531.3	11445.3	11367.6	11259.4	11162.3	11081.8	11026.3	11018.0	10990.3
5°	11625.7	11628.4	11459.2	11231.7	11009.7	10765.5	10513.0	10332.7	10163.4	10069.1	10021.9
7.5°	11653.4	11628.4	11323.2	10954.2	10526.9	10083.0	9639.0	9283.9	9009.2	8901.0	8942.6
10°	11642.3	11564.6	11117.9	10526.9	9905.4	9242.3	8604.1	8104.7	7646.9	7411.0	7416.6
12.5°	11581.3	11453.6	10812.7	10046.9	9134.1	8246.2	7269.5	6595.3	6065.3	5751.8	5654.7
15°	11528.6	11306.6	10454.8	9394.9	8260.1	6992.0	5801.7	4969.3	4525.4	4278.5	4275.7
17.5°	11473.1	11165.1	10063.6	8704.0	7255.6	5624.2	4375.6	3740.2	3532.1	3557.1	3515.4
20°	11414.8	10998.6	9655.7	7935.4	6032.0	4195.2	3276.8	3018.8	3077.1	3190.8	3207.5
22.5°	11348.2	10821.0	9217.3	7089.2	4744.6	3157.5	2658.1	2619.2	2769.1	2946.6	2971.6
25°	11245.5	10599.1	8665.1	6204.1	3659.7	2544.3	2327.9	2355.7	2502.7	2652.5	2669.2
27.5°	11101.3	10324.4	8107.4	5099.8	2749.7	2183.6	2128.1	2164.2	2236.3	2327.9	2350.1
30°	10907.0	10013.6	7466.5	4145.3	2203.1	2003.3	1981.1	2000.5	2042.1	2081.0	2092.1
32.5°	10712.8	9714.0	6820.0	3174.2	1964.4	1884.0	1861.8	1861.8	1861.8	1867.3	1870.1
35°	10532.5	9430.9	6126.4	2472.2	1839.6	1789.6	1759.1	1725.8	1720.3	1700.8	1700.8
37.5°	10432.6	9172.9	5388.3	2069.9	1748.0	1711.9	1670.3	1614.8	1584.3	1587.1	1581.5
40°	10452.0	9003.6	4716.9	1842.3	1673.1	1634.3	1570.4	1506.6	1487.2	1487.2	1481.6
42.5°	10671.2	8948.2	4073.1	1723.0	1601.0	1556.6	1476.1	1417.8	1406.7	1404.0	1409.5
45°	11176.2	9084.1	3496.0	1645.4	1539.9	1473.3	1392.9	1340.1	1329.0	1329.0	1326.3
47.5°	12161.2	9525.3	3082.6	1595.4	1495.5	1409.5	1326.3	1273.6	1254.1	1248.6	1248.6
50°	13692.8	10482.5	2774.6	1551.0	1440.0	1351.2	1265.2	1204.2	1173.7	1170.9	1168.1
52.5°	15820.9	11975.3	2655.3	1517.7	1379.0	1290.2	1195.9	1137.6	1098.8	1090.4	1084.9
55°	18309.7	14059.0	2819.0	1492.7	1315.2	1220.8	1123.7	1062.7	1026.6	1010.0	1007.2
57.5°	21192.6	16561.7	3440.5	1459.5	1256.9	1145.9	1051.6	990.5	951.7	932.3	926.7
60°	23781.3	19133.8	4525.4	1440.0	1207.0	1065.5	968.3	912.9	876.8	857.4	854.6
62.5°	26625.3	21586.6	5821.2	1492.7	1184.8	987.8	890.7	840.7	810.2	790.8	790.8
65°	29663.5	24042.1	6678.5	1670.3	1218.1	926.7	807.4	765.8	738.0	724.2	721.4
67.5°	31711.2	24891.1	5502.1	1853.4	1301.3	860.1	727.0	693.7	677.0	663.1	663.1
69°	31489.2	23817.4	4059.3	1900.6	1326.3	826.8	682.6	657.6	635.4	629.8	624.3
70°	30787.2	22593.7	3401.7	1870.1	1306.8	796.3	654.8	624.3	604.9	599.3	596.5
72.5°	27421.6	19594.4	2533.2	1625.9	1112.6	690.9	579.9	552.1	535.5	527.2	527.2
75°	22782.4	16015.1	1978.3	1293.0	871.2	582.7	496.7	474.5	460.6	455.0	452.3
77.5°	12768.8	8942.6	1420.6	1012.7	660.4	471.7	416.2	396.8	382.9	377.3	377.3
80°	3557.1	2555.4	835.2	668.7	449.5	357.9	330.2	316.3	296.9	283.0	291.3
82.5°	1340.1	1107.1	477.2	402.3	285.8	238.6	230.3	219.2	210.9	191.4	191.4
85°	652.0	538.3	305.2	213.6	158.2	124.9	119.3	113.8	108.2	94.3	97.1
87.5°	224.7	238.6	133.2	77.7	47.2	30.5	25.0	13.9	13.9	13.9	13.9
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)