

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: P532443

Luminaire Tested: **GALN-SA7D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31450 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

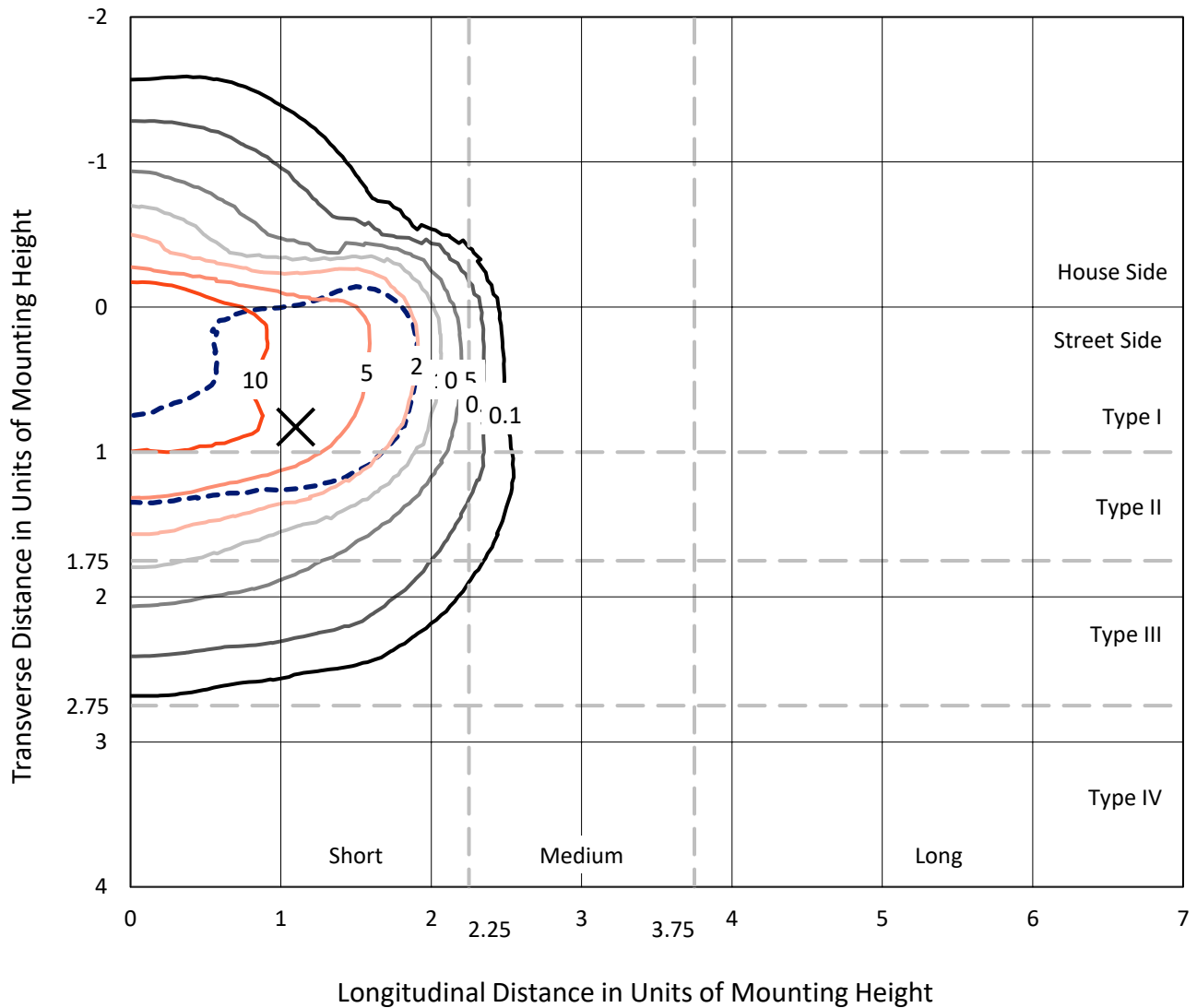
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

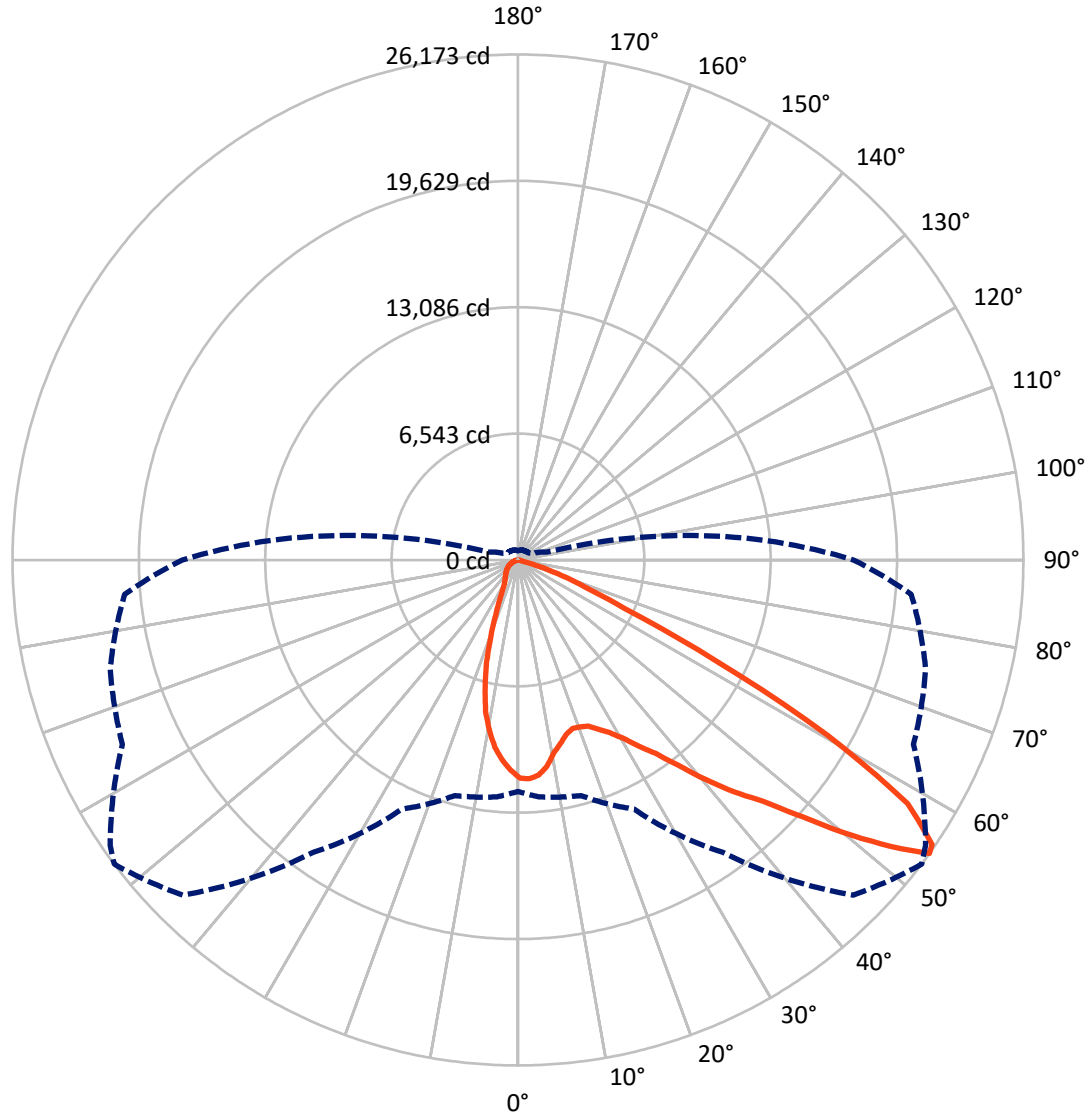
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5203.5	0.0	5203.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	26246.5	0.0	26246.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	31450.0	0.0	31450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.2	3.1
10°-20°	2222.1	7.1
20°-30°	3158.0	10.0
30°-40°	4873.7	15.5
40°-50°	7641.5	24.3
50°-60°	8876.6	28.2
60°-70°	3354.1	10.7
70°-80°	318.9	1.0
80°-90°	35.9	0.1
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°	31450.0	100.0
0°-180°	31450.0	100.0

Coefficient of Utilization



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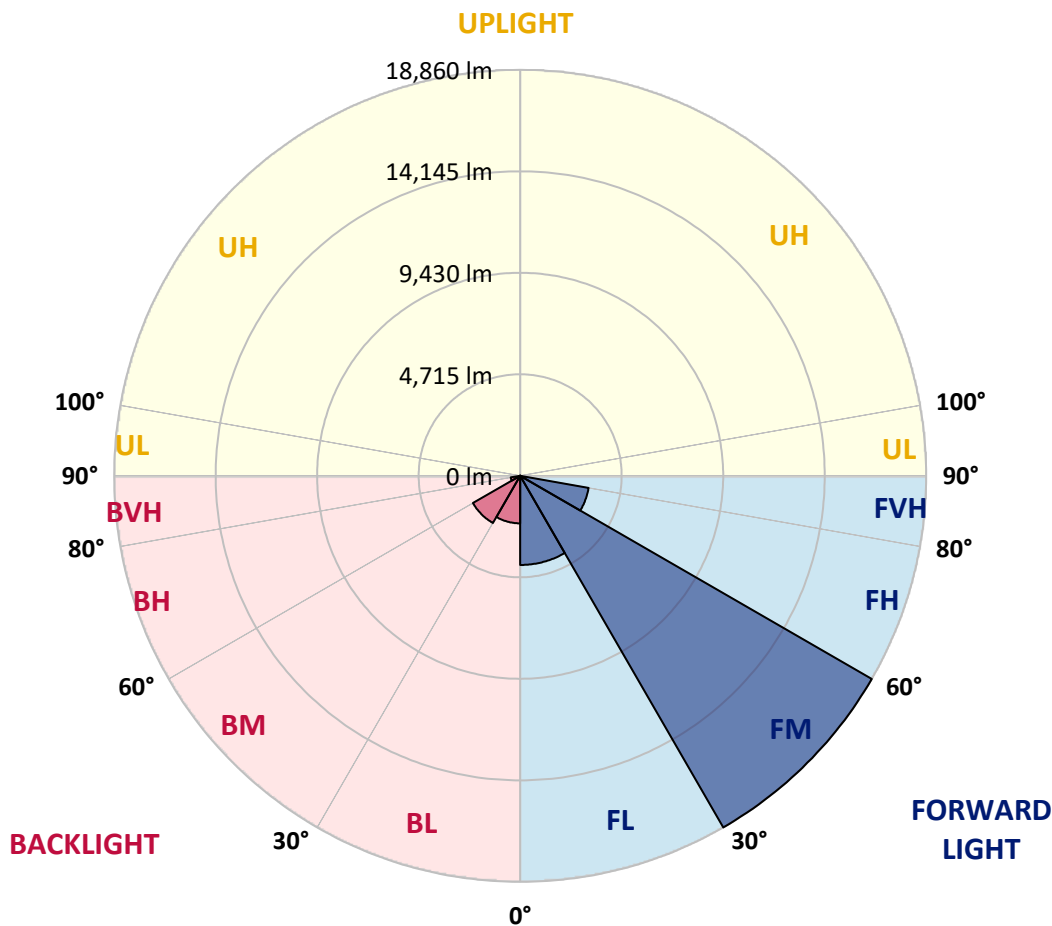
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4141.1	13.2			
FM (30°-60°)	18859.6	60.0			
FH (60°-80°)	3227.2	10.3			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	2208.1	7.0	B3/2500		
BM (30°-60°)	2532.2	8.1	B3/5000		
BH (60°-80°)	445.8	1.4	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3
2.5°	11237.7	11138.1	11237.7	11249.4	11319.7	11384.2	11343.2	11436.9	11384.2	11325.6	11308.0
5°	10329.6	10464.3	10470.2	10681.1	10634.2	11020.9	11190.8	11144.0	11431.1	11413.5	11372.5
7.5°	9515.1	9462.4	9532.7	9778.8	10089.3	10534.6	10780.7	10774.9	11185.0	11477.9	11448.6
10°	8759.3	8753.5	8899.9	9093.3	9357.0	9825.7	10165.5	10335.4	10974.1	11419.4	11483.8
12.5°	8249.6	8226.2	8384.3	8542.5	8958.5	9321.8	9755.4	9837.4	10569.8	11214.3	11319.7
15°	7915.6	7968.4	7980.1	8284.7	8548.4	9028.8	9368.7	9538.6	10382.3	11050.2	11454.5
17.5°	7857.0	7927.3	7933.2	8185.1	8466.4	8870.6	9169.5	9398.0	10224.1	11132.3	11460.4
20°	7974.2	7933.2	7968.4	8126.5	8401.9	8788.6	9222.2	9298.4	10171.4	11173.3	11524.8
22.5°	8308.2	8296.5	8208.6	8337.5	8530.8	8935.1	9345.2	9462.4	10323.7	11384.2	11577.5
25°	8677.3	8741.8	8659.7	8642.1	8776.9	9175.3	9720.2	9872.6	10833.4	11765.0	11741.6
27.5°	9368.7	9304.2	9304.2	9222.2	9187.0	9380.4	10124.5	10376.4	11401.8	12257.2	11929.1
30°	10030.7	10101.1	10048.3	10077.6	9843.3	9825.7	10698.7	11009.2	12409.5	13007.2	12327.5
32.5°	11079.5	10985.8	11073.7	10997.5	10687.0	10370.6	11477.9	11800.2	13628.2	13868.4	12925.1
35°	11952.5	11911.5	12286.5	12274.8	11770.9	11460.4	12304.1	12784.5	14477.8	14899.6	13628.2
37.5°	13194.7	13118.5	13546.2	13751.3	13300.1	12837.2	13487.6	14044.2	15268.8	15725.8	14348.9
40°	14471.9	14665.3	15239.5	15579.3	15098.9	14483.7	14934.8	15104.7	15796.1	16264.8	14841.1
42.5°	16089.0	16370.3	16956.2	17249.1	17208.1	16540.2	16405.4	16399.6	16176.9	16112.5	15204.3
45°	17641.7	17536.2	18438.5	19077.2	19592.8	19399.4	17823.3	17647.6	16780.4	16341.0	15298.1
47.5°	18321.3	18286.2	18901.4	20038.1	21795.8	22036.0	19885.7	19206.1	17799.9	17301.9	15807.8
50°	17442.5	17624.1	18233.5	19493.2	22188.3	24022.2	22416.8	21502.8	18989.3	18473.7	17014.8
52.5°	14571.5	14694.6	15274.6	16874.2	20852.5	25194.1	24842.5	24315.2	21174.7	20319.3	19118.2
54°	11981.8	12309.9	12626.3	14231.7	18473.7	24543.7	26172.5	25768.2	22598.5	21854.4	20442.3
55°	10435.0	10628.4	10856.9	12456.4	16827.3	23442.2	26020.2	26055.3	23553.5	22334.8	21332.9
57.5°	7622.7	7757.4	7523.1	8232.0	11554.1	19036.2	23799.6	24748.8	24842.5	23055.5	21877.8
60°	5823.9	5882.5	5618.9	5730.2	7183.2	13065.8	18409.2	19551.8	22411.0	20149.4	18532.3
62.5°	4517.4	4529.1	4523.2	4716.6	4950.9	7687.1	11513.1	12526.7	15450.4	14307.9	12585.3
65°	3328.0	3275.2	3369.0	3954.9	4224.4	4833.7	6064.1	6802.4	8396.1	7089.5	5068.1
67.5°	2156.1	2173.7	2267.5	2941.3	3620.9	3708.8	3732.2	3673.6	3679.5	2027.2	1271.4
70°	1294.9	1324.2	1294.9	1664.0	2589.7	2660.0	2431.5	2372.9	1851.5	480.4	474.6
72.5°	767.5	726.5	650.4	714.8	1078.1	1289.0	1160.1	1154.2	726.5	281.2	281.2
75°	322.2	293.0	240.2	216.8	287.1	275.4	275.4	246.1	193.3	187.5	175.8
77.5°	64.4	64.4	46.9	52.7	70.3	82.0	99.6	99.6	117.2	117.2	111.3
80°	0.0	5.9	17.6	35.2	52.7	76.2	87.9	87.9	99.6	99.6	82.0
82.5°	0.0	5.9	17.6	35.2	46.9	70.3	87.9	87.9	99.6	105.5	87.9
85°	0.0	5.9	17.6	29.3	46.9	58.6	58.6	52.7	41.0	35.2	23.4
87.5°	0.0	0.0	5.9	11.7	5.9	11.7	11.7	11.7	11.7	11.7	11.7
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°	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3	11296.3
2.5°	11349.0	11343.2	11202.6	10974.1	10921.3	10728.0	10704.5	10587.4	10651.8	10435.0	10411.6
5°	11255.3	11185.0	11015.1	10868.6	10440.9	10136.2	9896.0	9603.0	9433.1	9462.4	9351.1
7.5°	11390.1	11208.4	10909.6	10399.9	9878.4	9345.2	9058.1	8460.5	8243.7	7921.5	7874.6
10°	11249.4	11114.7	10651.8	9808.1	9087.4	8319.9	7646.1	6984.0	6480.1	6263.4	6216.5
12.5°	11237.7	11003.4	10230.0	9292.5	8249.6	7148.1	6169.6	5343.5	4845.5	4564.2	4499.8
15°	11056.1	10774.9	9755.4	8495.7	7054.3	5683.3	4617.0	3820.1	3439.3	3275.2	3322.1
17.5°	11073.7	10651.8	9280.8	7652.0	5876.7	4171.7	3152.2	2742.1	2642.4	2683.5	2683.5
20°	11056.1	10376.4	8706.6	6679.4	4499.8	2894.4	2314.3	2167.9	2232.3	2361.2	2331.9
22.5°	10962.3	10247.5	8179.3	5654.0	3310.4	2144.4	1857.3	1863.2	1962.8	2121.0	2156.1
25°	11032.7	9960.4	7511.3	4617.0	2413.9	1710.9	1611.2	1652.3	1757.7	1874.9	1898.3
27.5°	10979.9	9755.4	6814.1	3585.8	1763.6	1470.6	1464.8	1511.6	1558.5	1646.4	1646.4
30°	11038.5	9567.9	6128.6	2665.9	1453.1	1347.6	1324.2	1359.3	1406.2	1423.8	1417.9
32.5°	11255.3	9427.3	5337.6	1992.1	1283.1	1230.4	1230.4	1230.4	1224.5	1248.0	1253.8
35°	11729.9	9450.7	4640.4	1540.9	1171.8	1130.8	1113.2	1089.8	1078.1	1089.8	1095.6
37.5°	12245.5	9439.0	3919.7	1312.4	1089.8	1054.6	1013.6	978.5	972.6	984.3	966.7
40°	12474.0	9550.3	3251.8	1177.7	1013.6	972.6	908.2	878.9	884.7	896.4	884.7
42.5°	12784.5	9585.5	2818.2	1072.2	943.3	878.9	837.8	802.7	796.8	814.4	808.6
45°	12778.7	9386.2	2361.2	1013.6	878.9	808.6	755.8	726.5	726.5	738.2	744.1
47.5°	13153.6	9357.0	2027.2	960.9	832.0	761.7	697.2	673.8	667.9	667.9	656.2
50°	14026.6	9767.1	1769.4	902.3	773.4	708.9	656.2	626.9	603.5	591.8	585.9
52.5°	15731.6	11044.4	1570.2	832.0	708.9	656.2	609.3	585.9	556.6	527.3	521.5
54°	17383.9	12362.7	1558.5	773.4	656.2	621.1	580.0	568.3	533.2	492.2	480.4
55°	18128.0	13130.2	1599.5	726.5	621.1	597.6	562.5	550.8	515.6	468.7	462.9
57.5°	18743.2	13429.0	1576.1	603.5	562.5	556.6	527.3	509.7	468.7	404.3	392.6
60°	15087.1	10153.8	1130.8	533.2	515.6	503.9	480.4	468.7	416.0	345.7	339.8
62.5°	9532.7	5841.5	720.7	468.7	451.1	433.6	404.3	392.6	345.7	275.4	257.8
65°	4060.3	2419.8	486.3	416.0	386.7	357.4	334.0	316.4	275.4	205.1	199.2
67.5°	1054.6	861.3	404.3	363.3	322.2	281.2	263.7	234.4	187.5	140.6	134.8
70°	474.6	433.6	339.8	304.7	257.8	216.8	193.3	164.1	123.0	93.7	87.9
72.5°	281.2	275.4	257.8	228.5	193.3	164.1	140.6	111.3	82.0	52.7	52.7
75°	175.8	169.9	175.8	158.2	134.8	123.0	105.5	76.2	46.9	23.4	23.4
77.5°	105.5	105.5	105.5	99.6	93.7	93.7	76.2	46.9	23.4	5.9	5.9
80°	82.0	82.0	87.9	82.0	82.0	82.0	64.4	35.2	11.7	0.0	0.0
82.5°	82.0	87.9	99.6	93.7	82.0	70.3	58.6	35.2	11.7	0.0	0.0
85°	23.4	17.6	29.3	41.0	58.6	52.7	41.0	29.3	11.7	0.0	0.0
87.5°	11.7	11.7	11.7	11.7	5.9	5.9	5.9	5.9	5.9	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)