

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: P457448

Luminaire Tested: **GALN-SA8D-740-U-SL3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51674 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

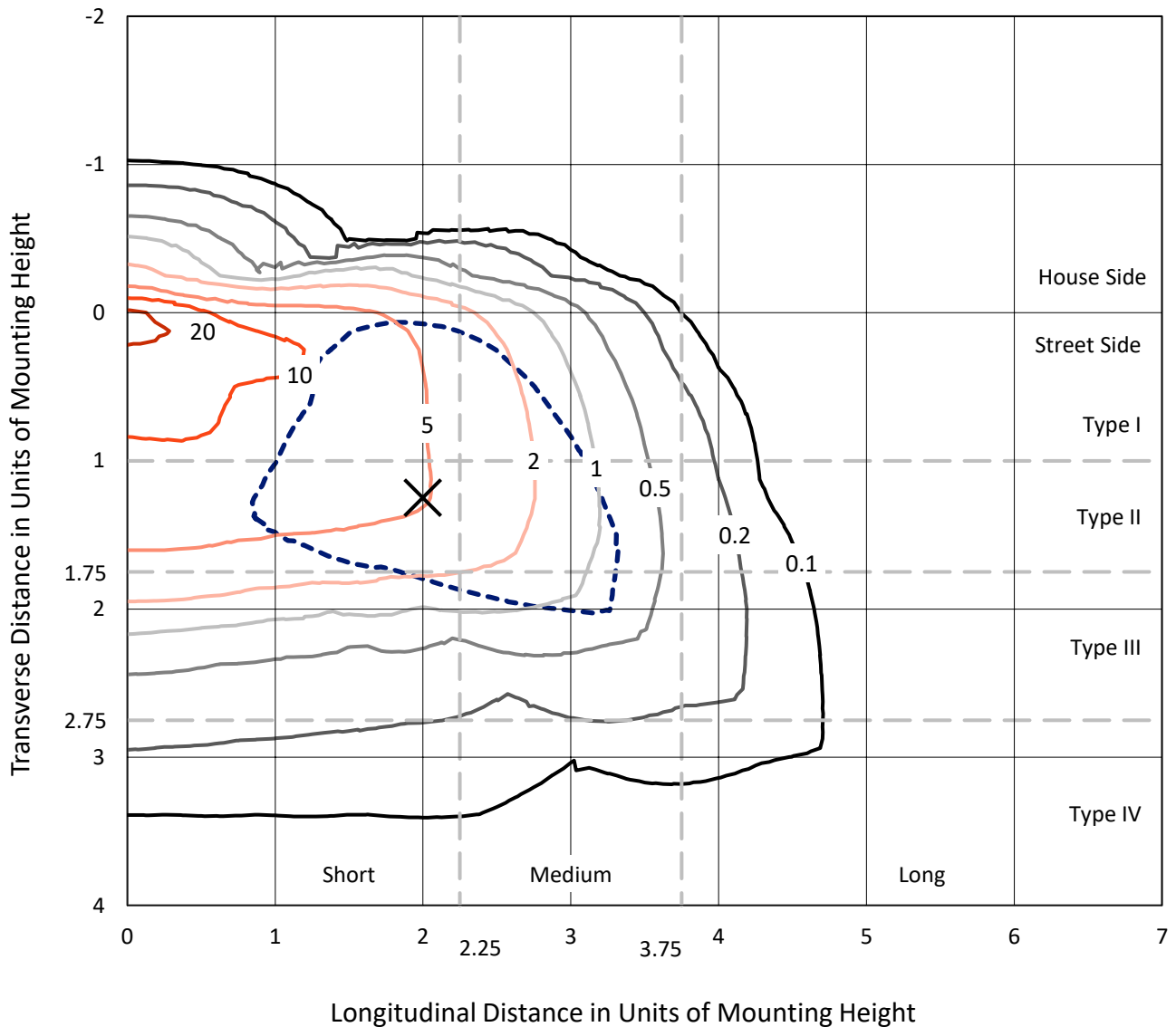
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

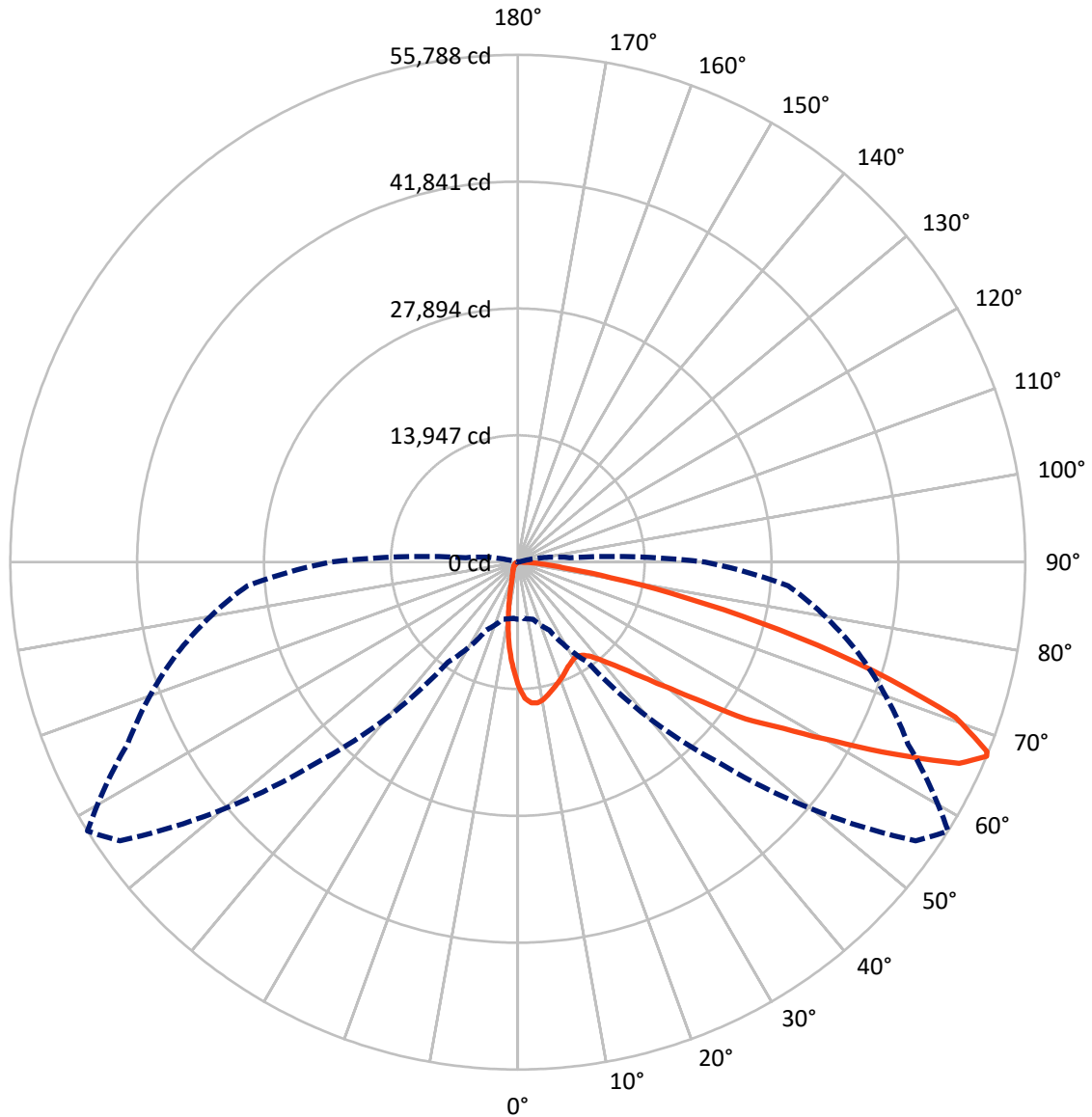
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3729.1	0.0	3729.1
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	47944.9	0.0	47944.9
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	51674.0	0.0	51674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1111.6	2.2
10°-20°	2400.7	4.6
20°-30°	3253.2	6.3
30°-40°	4512.0	8.7
40°-50°	7196.1	13.9
50°-60°	12439.1	24.1
60°-70°	14209.3	27.5
70°-80°	5924.0	11.5
80°-90°	628.1	1.2
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°	51674.0	100.0
0°-180°	51674.0	100.0

**Coefficient of Utilization**



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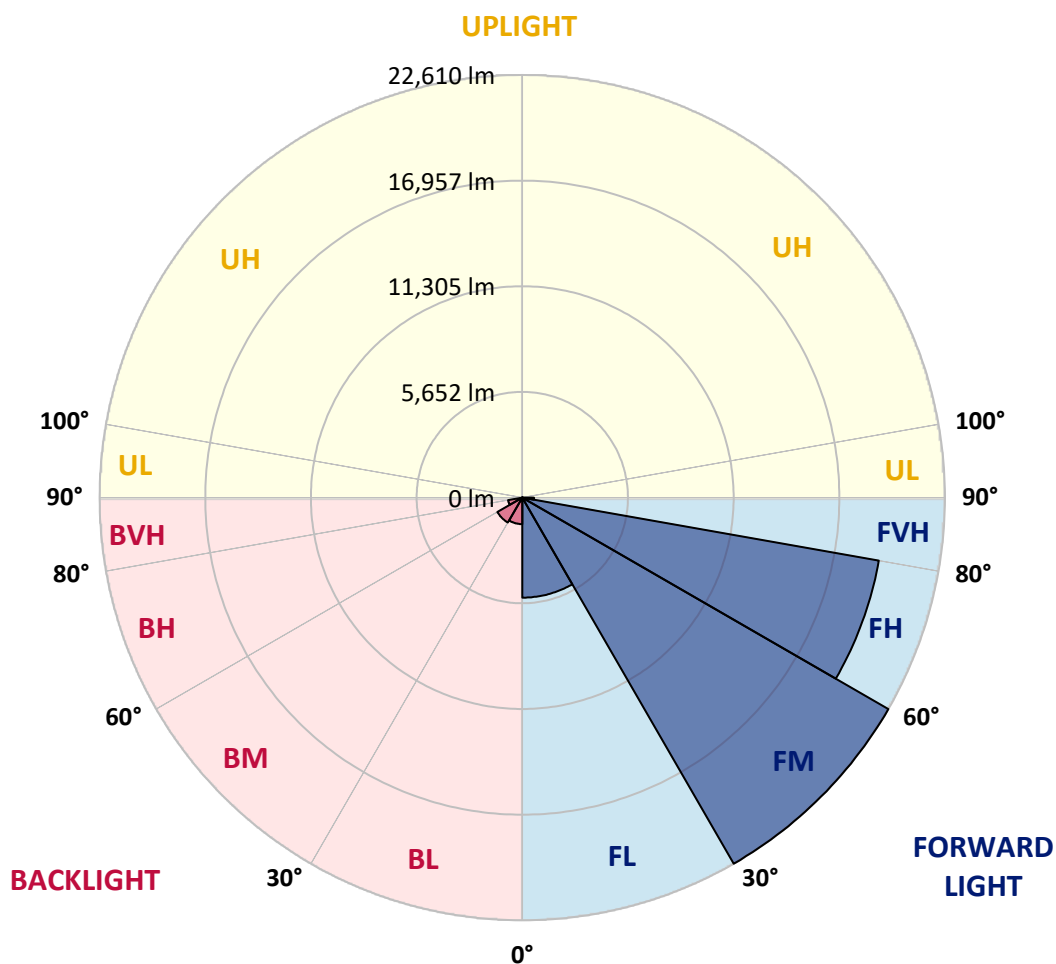
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5349.5	10.4			
FM	(30°-60°)	22609.5	43.8			
FH	(60°-80°)	19362.3	37.5			G5
FVH	(80°-90°)	623.6	1.2			G4/750
BL	(0°-30°)	1416.0	2.7	B3/2500		
BM	(30°-60°)	1537.6	3.0	B2/2500		
BH	(60°-80°)	770.9	1.5	B2/1000		G2/1000
BVH	(80°-90°)	4.6	0.0			G0/10
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°	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3
2.5°	15897.9	15922.1	15832.3	15759.8	15573.3	15373.0	15107.2	14965.6	14723.9	14306.0	13843.3
5°	16270.8	16301.9	16288.1	16270.8	16198.3	16004.9	15666.5	15542.2	15186.6	14506.3	13670.7
7.5°	15442.1	15556.1	15569.9	15704.5	15832.3	15849.6	15721.8	15628.6	15300.5	14502.9	13363.4
10°	14344.0	14420.0	14530.5	14685.9	14993.2	15248.7	15373.0	15359.2	15169.3	14395.8	13004.2
12.5°	13235.6	13277.0	13446.2	13712.1	14088.5	14523.6	14855.1	14920.7	14924.1	14268.1	12703.8
15°	12282.5	12265.3	12396.5	12703.8	13232.1	13777.7	14371.7	14475.2	14641.0	14143.7	12424.1
17.5°	11467.6	11557.4	11578.1	11916.5	12403.4	13111.3	13867.5	14050.5	14382.0	14036.7	12192.8
20°	10963.5	11011.8	11056.7	11246.6	11685.2	12431.0	13394.4	13646.5	14140.3	13940.0	11933.8
22.5°	10815.0	10846.1	10808.1	10866.8	11177.6	11840.6	12879.9	13214.9	13908.9	13850.2	11723.2
25°	10928.9	10960.0	10870.2	10801.2	10908.2	11360.6	12382.7	12790.1	13722.5	13833.0	11564.3
27.5°	11205.2	11263.9	11139.6	11015.3	10953.1	11101.6	11992.5	12465.6	13594.7	13915.8	11491.8
30°	11636.8	11671.4	11578.1	11426.2	11284.6	11136.1	11788.8	12241.1	13560.2	14109.2	11484.9
32.5°	12106.4	12179.0	12127.2	12027.0	11844.0	11491.8	11847.5	12248.0	13643.1	14388.9	11571.2
35°	12686.6	12769.4	12817.8	12797.1	12562.2	12123.7	12220.4	12558.8	13864.0	14903.4	11806.0
37.5°	13256.3	13328.8	13601.6	13694.8	13487.7	13073.3	12945.5	13170.0	14350.9	15576.8	12230.8
40°	13908.9	14005.6	14388.9	14744.6	14644.4	14209.4	13974.5	14161.0	15096.8	16592.0	13035.3
42.5°	14533.9	14706.6	15290.2	15918.6	16011.9	15525.0	15369.6	15431.7	16201.8	18052.6	14157.6
45°	15421.4	15583.7	16336.4	17189.4	17627.9	17248.1	17089.2	17078.9	17717.7	20107.2	15977.3
47.5°	16702.5	16847.5	17734.9	18577.5	19357.9	19409.7	19109.3	19212.8	19623.8	22510.5	18208.0
50°	18273.6	18615.5	19199.0	20076.1	21118.9	21961.5	22054.7	21916.6	22268.8	25293.7	20887.6
52.5°	20556.1	20687.3	21222.5	21944.2	23166.6	24596.2	25704.6	25514.7	25404.2	27945.6	23594.8
55°	22258.4	22434.6	23266.7	24257.8	26049.9	27935.3	30338.6	30404.2	29009.2	30494.0	26243.3
57.5°	21743.9	22013.3	23273.6	25266.1	29206.0	32652.2	34440.9	34485.7	32344.8	32969.9	29233.6
60°	19102.3	19230.1	21036.1	23694.9	29475.3	37762.7	40259.3	39896.7	35739.2	35739.2	31875.2
62.5°	13546.4	13746.6	15210.7	19123.1	26619.7	39537.6	47227.5	46478.2	40414.7	38387.7	33449.8
65°	8656.8	8463.5	9433.8	12071.9	19830.9	36916.7	53294.6	53339.5	44813.9	39447.8	32590.0
67°	6270.8	6194.8	6474.5	8252.8	13446.2	31032.7	53422.3	55787.7	47341.5	38777.9	29841.4
67.5°	5735.5	5794.2	5998.0	7444.8	12216.9	28239.2	52842.2	55642.7	47911.3	38373.9	28846.9
70°	4347.4	4247.3	4468.3	5265.9	7323.9	17814.4	45456.1	51032.8	47203.4	34364.9	23049.2
72.5°	3197.5	3187.2	3494.5	4306.0	5638.9	9489.0	34123.2	40918.8	38563.8	26167.3	14513.2
75°	2158.2	2254.9	2745.2	3598.1	5110.5	6153.4	23263.3	29686.0	26771.6	14858.5	5932.4
77.5°	1229.3	1236.2	1768.0	2890.2	4589.1	4951.7	13784.6	18912.4	14171.4	4941.3	1761.1
80°	531.8	583.6	877.1	2099.5	3805.3	4385.4	7904.1	10393.7	5732.1	1046.3	569.8
82.5°	196.8	231.4	386.7	1291.4	2776.3	3611.9	4775.6	4962.1	1944.1	369.5	355.7
85°	0.0	6.9	141.6	604.3	1446.8	1612.6	3190.6	2942.0	859.8	176.1	231.4
87.5°	0.0	0.0	0.0	62.2	189.9	600.8	991.0	1105.0	207.2	62.2	55.2
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°	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3	13698.3
2.5°	13594.7	13370.3	12807.4	12244.6	11826.7	11478.0	10953.1	10666.5	10514.6	10290.1	10303.9
5°	13252.9	12797.1	11806.0	10780.5	9951.7	9143.7	8176.9	7786.7	7458.6	7272.2	7147.8
7.5°	12745.3	12071.9	10604.4	9236.9	7962.8	6550.5	5490.4	4782.5	4306.0	4129.9	3960.7
10°	12189.3	11295.0	9385.4	7489.7	5721.7	4264.5	3366.7	2717.6	2486.2	2272.1	2292.8
12.5°	11674.8	10587.1	8266.6	5911.6	4009.0	2710.7	2113.3	1847.4	1771.4	1747.3	1747.3
15°	11253.5	9910.3	7065.0	4444.1	2748.6	1947.5	1692.0	1619.5	1591.9	1585.0	1585.0
17.5°	10804.6	9268.0	5980.7	3283.9	1999.3	1629.8	1543.5	1495.2	1484.8	1477.9	1477.9
20°	10404.1	8622.3	4951.7	2444.8	1616.0	1467.6	1412.3	1381.2	1370.9	1364.0	1367.4
22.5°	10024.2	8049.1	3984.8	1847.4	1422.7	1336.3	1281.1	1250.0	1229.3	1212.0	1215.5
25°	9685.8	7496.6	3204.4	1512.4	1281.1	1205.1	1149.9	1105.0	1060.1	1039.4	1035.9
27.5°	9447.6	7013.2	2496.6	1294.9	1153.3	1070.4	1001.4	946.1	887.4	856.4	849.5
30°	9250.8	6522.8	1975.2	1143.0	1025.6	946.1	859.8	780.4	718.2	687.2	673.3
32.5°	9123.0	6056.7	1557.3	1018.7	918.5	821.8	725.1	645.7	576.7	545.6	538.7
35°	9102.3	5666.5	1274.2	915.1	821.8	718.2	618.1	531.8	473.1	442.0	435.1
37.5°	9250.8	5366.1	1067.0	832.2	742.4	628.5	518.0	438.5	386.7	362.6	359.1
40°	9647.9	5176.1	925.4	763.1	669.9	545.6	442.0	372.9	321.1	297.0	297.0
42.5°	10404.1	5183.0	832.2	697.5	597.4	466.2	376.4	310.8	265.9	245.2	238.3
45°	11585.0	5417.9	752.8	631.9	528.3	404.0	321.1	255.5	210.6	193.4	193.4
47.5°	13166.5	5884.0	683.7	566.3	466.2	345.3	272.8	207.2	169.2	151.9	151.9
50°	15234.9	6633.3	625.0	511.1	414.4	297.0	221.0	169.2	131.2	117.4	114.0
52.5°	17396.5	7558.8	555.9	462.7	355.7	252.1	179.6	131.2	100.1	89.8	86.3
55°	19782.6	8463.5	490.3	414.4	290.1	210.6	141.6	103.6	72.5	62.2	62.2
57.5°	22189.4	9350.9	410.9	345.3	227.9	155.4	110.5	76.0	48.3	38.0	38.0
60°	24226.7	9637.5	348.8	279.7	172.7	110.5	79.4	48.3	27.6	17.3	17.3
62.5°	24506.4	8670.6	293.5	214.1	124.3	76.0	41.4	27.6	10.4	6.9	6.9
65°	22987.0	7044.2	245.2	162.3	82.9	38.0	17.3	10.4	3.5	0.0	0.0
67°	20597.5	5711.4	200.3	120.9	58.7	24.2	10.4	3.5	0.0	0.0	0.0
67.5°	19986.3	5445.5	193.4	114.0	51.8	20.7	6.9	3.5	0.0	0.0	0.0
70°	15683.8	4078.1	138.1	69.1	31.1	13.8	0.0	0.0	0.0	0.0	0.0
72.5°	9748.0	2306.6	100.1	41.4	20.7	6.9	0.0	0.0	0.0	0.0	0.0
75°	3684.4	808.0	69.1	27.6	13.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1146.4	307.3	41.4	20.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	386.7	117.4	27.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	238.3	48.3	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	148.5	20.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	6.9	3.5	0.0	0.0	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)