

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: P457457

Luminaire Tested: **GALN-SA8D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
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-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46698 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G5

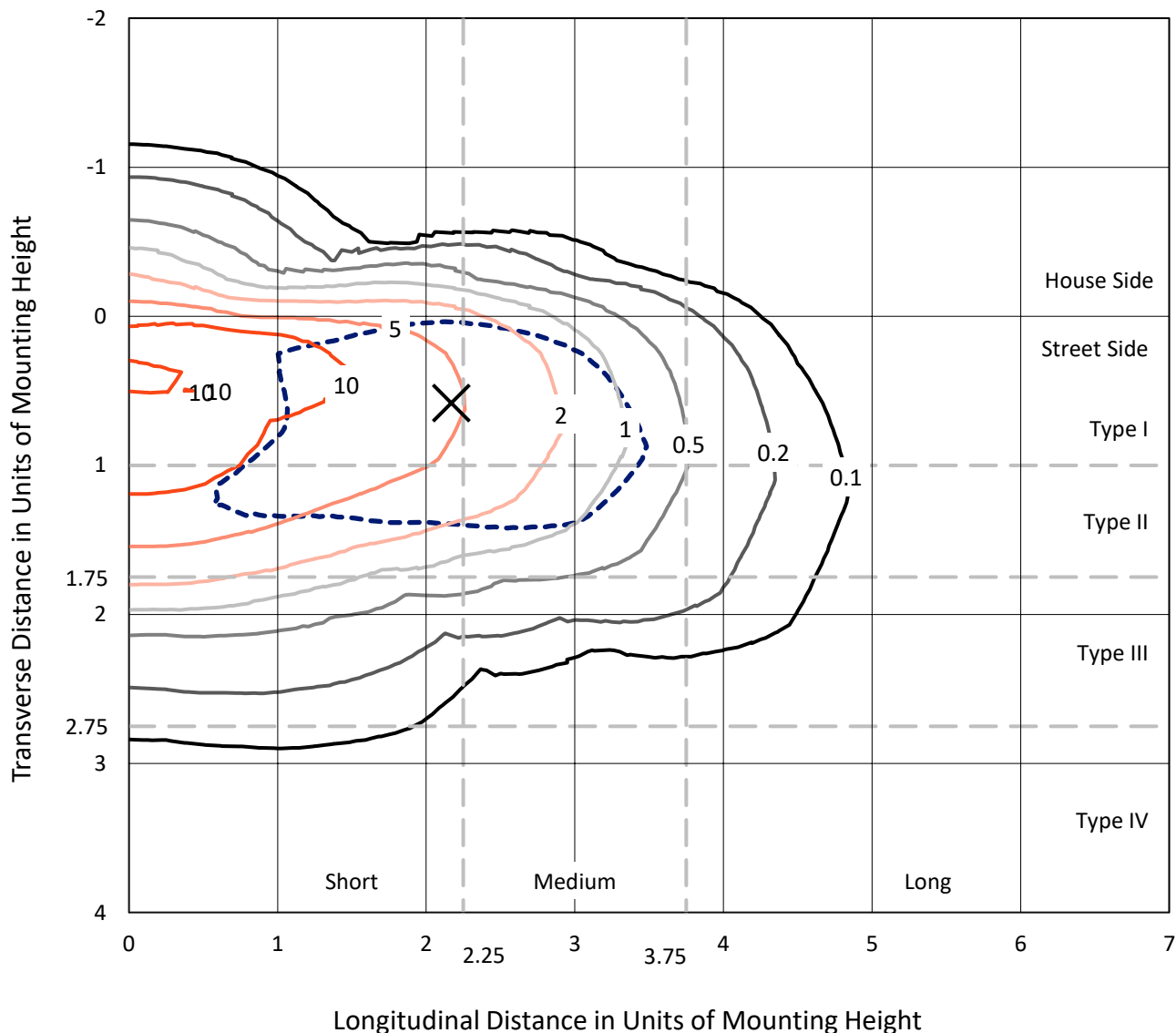
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457457  
 CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

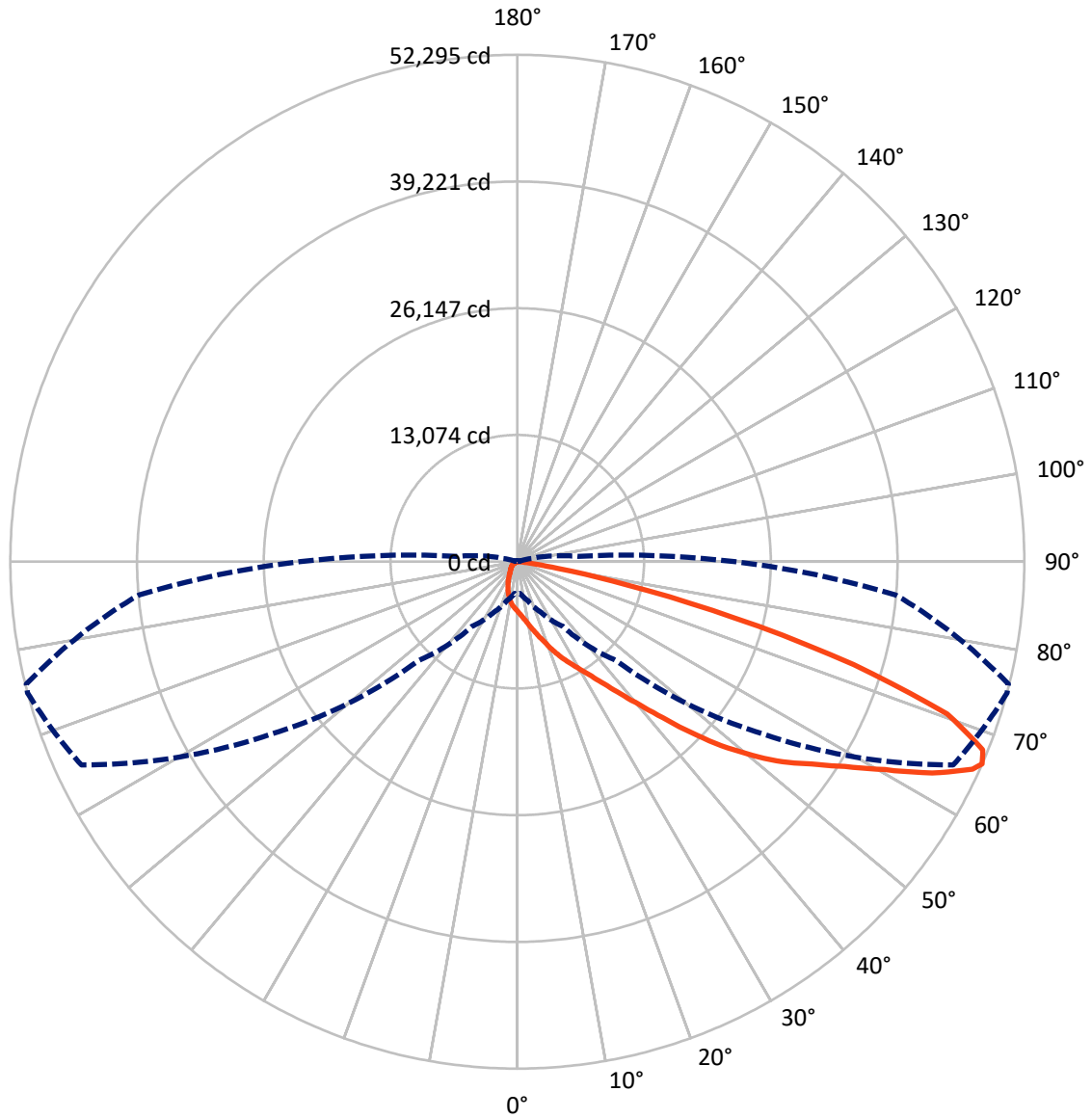
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

REPORT NUMBER: P457457  
CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P457457

CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2882.9	0.0	2882.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	43815.1	0.0	43815.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	46698.0	0.0	46698.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.6	1.1
10°-20°	1449.7	3.1
20°-30°	2503.2	5.4
30°-40°	4515.3	9.7
40°-50°	8157.0	17.5
50°-60°	12716.8	27.2
60°-70°	12080.5	25.9
70°-80°	4527.5	9.7
80°-90°	255.4	0.5
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°	46698.0	100.0
0°-180°	46698.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457457

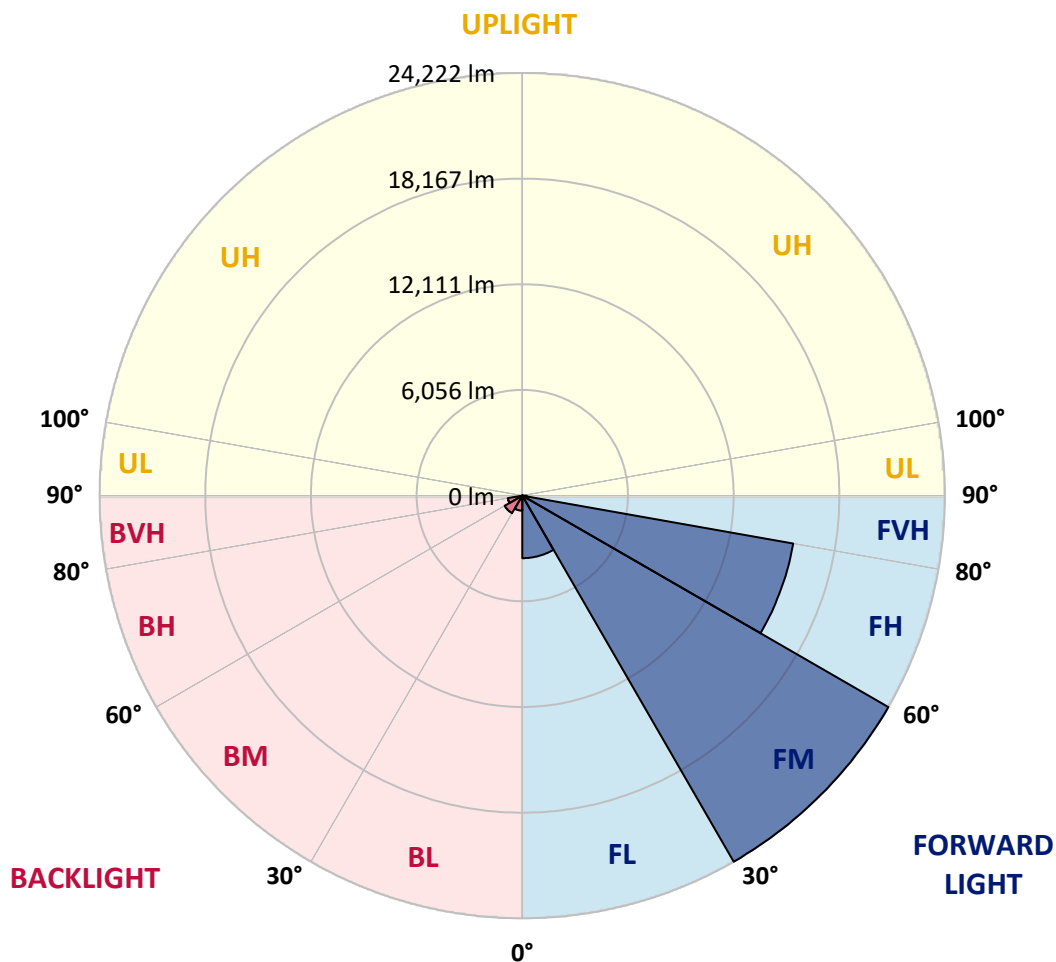
CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3584.5	7.7			
FM	(30°-60°)	24222.2	51.9			
FH	(60°-80°)	15766.1	33.8			G5
FVH	(80°-90°)	242.3	0.5			G3/500
BL	(0°-30°)	861.0	1.8	B2/1000		
BM	(30°-60°)	1166.9	2.5	B2/2500		
BH	(60°-80°)	841.8	1.8	B2/1000		G2/1000
BVH	(80°-90°)	13.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type II Short





REPORT NUMBER: P457457

CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9
2.5°	6101.3	6025.4	6049.5	6015.0	5935.6	5818.2	5714.6	5566.1	5417.7	5393.5	5227.7
5°	6905.9	6885.1	6857.5	6757.4	6702.1	6522.6	6308.5	6053.0	5745.7	5690.4	5390.0
7.5°	7454.9	7444.5	7458.3	7406.5	7358.2	7195.9	6968.0	6619.3	6142.8	6111.7	5611.0
10°	7634.4	7662.1	7713.9	7796.7	7872.7	7820.9	7648.2	7213.2	6657.3	6567.5	5863.1
12.5°	7530.8	7561.9	7686.2	7907.2	8152.4	8293.9	8224.9	7907.2	7202.8	7130.3	6146.2
15°	7265.0	7303.0	7479.1	7820.9	8259.4	8660.0	8832.6	8604.7	7838.2	7720.8	6488.1
17.5°	6871.3	6926.6	7178.6	7631.0	8231.8	8922.4	9409.2	9333.3	8514.9	8404.4	6861.0
20°	6574.4	6615.8	6829.9	7347.8	8114.4	9067.4	9958.3	10172.3	9350.5	9160.6	7299.5
22.5°	6771.2	6785.0	6857.5	7168.3	7903.8	9105.4	10441.7	11045.9	10237.9	10068.8	7755.3
25°	7734.6	7596.5	7523.9	7454.9	7858.9	9070.9	10880.2	11957.5	11121.9	10942.3	8207.6
27.5°	9253.9	9191.7	8825.7	8335.4	8242.2	9115.7	11170.2	12820.7	11954.1	11760.7	8649.6
30°	10907.8	10800.8	10576.3	9858.1	9136.5	9433.4	11380.9	13659.8	12938.1	12682.6	9053.6
32.5°	12427.1	12496.2	12161.2	11422.3	10586.7	10110.2	11653.6	14574.8	14067.2	13749.6	9523.2
35°	14198.5	14336.6	13822.1	13114.2	12137.1	11332.5	12185.4	15607.3	15500.2	15099.7	10248.3
37.5°	15997.4	16080.3	15766.1	14771.6	13891.1	12886.3	13186.8	16881.4	17264.7	16922.8	11115.0
40°	17509.8	17623.8	17392.4	16508.5	15569.3	14685.3	14640.4	18269.5	19364.0	19011.8	12406.4
42.5°	18666.6	18752.9	18759.8	18134.8	17288.8	16888.3	16494.7	20040.8	21995.2	21587.7	13905.0
45°	20127.1	20251.5	20178.9	19754.2	19122.3	19049.8	18846.1	22181.6	25144.3	24629.8	15849.0
47.5°	22385.4	22468.2	22288.7	21788.0	21145.8	21259.7	21138.9	24581.4	28355.5	27913.5	17862.0
50°	23953.0	24091.1	24346.6	24546.9	24080.8	23659.5	23300.4	26822.4	31404.4	31007.3	19920.0
52.5°	23935.7	24163.6	24971.6	25979.9	26998.5	26870.7	25838.3	29298.1	34315.2	33824.9	21853.6
55°	22323.2	22765.2	23953.0	25741.6	28562.7	29968.0	29498.4	32164.1	36829.0	36497.5	24094.6
57.5°	18994.6	19263.9	20914.4	23414.3	27689.1	31425.1	33738.6	36048.6	39843.4	39688.0	27575.1
60°	12775.9	12896.7	15020.3	18110.6	23573.2	29971.5	36846.2	40748.1	43555.3	43479.3	31639.2
62.5°	7320.2	7372.0	8912.0	11519.0	16774.3	25399.8	37108.7	46545.5	48006.1	48047.6	36342.1
65°	3939.8	3967.4	5210.5	6760.8	10206.9	18103.7	33369.1	49722.2	51604.1	51683.5	39256.4
66°	3401.1	3269.9	4147.0	5762.9	8121.3	14409.1	31003.9	49608.3	52294.7	52208.3	39152.8
67.5°	2586.2	2703.6	3311.4	4430.1	6018.5	10244.9	25596.6	47401.9	51769.8	51500.5	37561.0
70°	1850.8	1899.1	2358.4	3159.4	4098.6	5621.4	16356.5	39370.3	47053.1	46690.6	32723.4
72.5°	1194.7	1246.5	1671.2	2285.8	2962.6	3069.7	9157.2	28445.3	36276.5	36224.7	24643.6
75°	852.9	901.2	1104.9	1636.7	2227.1	1899.1	4409.4	19170.7	23062.1	22906.8	15244.7
77.5°	618.1	642.2	738.9	1070.4	1591.8	1360.5	2044.1	10237.9	11481.0	12023.1	6736.7
80°	355.7	376.4	514.5	652.6	1077.3	928.8	977.2	4109.0	4236.7	4033.0	2106.3
82.5°	176.1	200.3	307.3	445.4	673.3	625.0	448.9	1236.2	1305.2	1270.7	531.8
85°	41.4	51.8	172.6	293.5	328.0	279.7	217.5	362.6	448.9	438.5	203.7
87.5°	3.5	6.9	62.2	51.8	55.2	93.2	76.0	93.2	145.0	134.7	72.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P457457  
 CATALOG NUMBER: GALN-SA8D-740-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9	5106.9
2.5°	5151.8	5086.2	4896.3	4709.8	4554.4	4392.1	4243.7	4157.3	4122.8	4084.8	4102.1
5°	5224.3	5065.5	4682.2	4350.7	4026.1	3749.9	3528.9	3387.3	3318.3	3307.9	3290.6
7.5°	5321.0	5048.2	4454.3	3936.3	3511.6	3204.3	2952.3	2748.5	2686.4	2631.1	2586.2
10°	5438.4	5017.1	4171.1	3501.3	3048.9	2662.2	2330.7	2089.0	1964.7	1930.2	1954.4
12.5°	5562.7	4958.4	3874.2	3100.7	2579.3	2085.6	1778.3	1657.4	1622.9	1609.1	1612.5
15°	5687.0	4885.9	3563.4	2714.0	2054.5	1664.3	1522.7	1491.7	1477.9	1470.9	1464.0
17.5°	5800.9	4768.5	3214.7	2337.6	1664.3	1422.6	1370.8	1343.2	1315.6	1305.2	1287.9
20°	5935.6	4633.8	2900.5	1916.4	1408.8	1287.9	1225.8	1174.0	1132.6	1104.9	1101.5
22.5°	6063.4	4461.2	2572.4	1588.3	1284.5	1156.7	1056.6	1001.4	953.0	918.5	928.8
25°	6132.4	4250.6	2278.9	1384.6	1170.5	1025.5	915.0	846.0	794.2	776.9	773.5
27.5°	6132.4	3991.6	1992.3	1267.2	1067.0	908.1	794.2	728.6	694.0	669.9	673.3
30°	6084.1	3705.0	1726.5	1177.5	977.2	804.5	697.5	638.8	611.2	593.9	590.5
32.5°	6046.1	3432.2	1498.6	1091.1	884.0	714.8	621.5	576.6	549.0	531.8	531.8
35°	6104.8	3197.4	1322.5	1004.8	797.6	645.7	562.8	521.4	493.8	480.0	476.5
37.5°	6260.2	2983.3	1187.8	911.6	718.2	587.0	521.4	473.1	445.4	428.2	421.3
40°	6643.4	2862.5	1087.7	825.3	642.2	538.7	473.1	428.2	393.6	376.4	372.9
42.5°	7258.1	2865.9	991.0	745.8	583.5	497.2	431.6	379.8	341.8	324.6	321.1
45°	8183.5	2997.1	915.0	669.9	531.8	452.3	386.7	331.5	297.0	279.7	279.7
47.5°	9291.8	3252.7	849.4	604.3	483.4	410.9	341.8	286.6	252.1	238.3	238.3
50°	10493.5	3584.1	783.8	535.2	442.0	366.0	293.5	248.6	221.0	210.6	210.6
52.5°	11719.3	3984.7	718.2	480.0	397.1	317.7	252.1	221.0	196.8	189.9	186.5
55°	13328.3	4495.7	649.2	421.3	348.7	272.8	224.4	193.4	165.7	155.4	151.9
57.5°	15804.1	5265.7	573.2	369.5	286.6	227.9	193.4	162.3	131.2	113.9	110.5
60°	18790.9	6204.9	493.8	324.6	231.3	186.5	155.4	124.3	96.7	76.0	72.5
62.5°	21587.7	6802.3	417.8	272.8	183.0	141.6	110.5	93.2	69.1	48.3	44.9
65°	22823.9	6602.0	345.3	221.0	145.0	100.1	72.5	65.6	41.4	20.7	17.3
66°	22413.0	6305.1	317.7	200.3	131.2	86.3	62.2	55.2	31.1	10.4	10.4
67.5°	21201.0	5604.1	276.2	172.6	113.9	69.1	48.3	41.4	17.3	3.5	0.0
70°	18165.9	4533.7	217.5	127.8	82.9	48.3	27.6	20.7	10.4	0.0	0.0
72.5°	13953.3	3377.0	172.6	96.7	58.7	27.6	13.8	6.9	10.4	0.0	0.0
75°	8549.5	1930.2	134.7	72.5	38.0	17.3	10.4	0.0	10.4	3.5	0.0
77.5°	3794.8	866.7	89.8	48.3	27.6	13.8	6.9	0.0	6.9	3.5	0.0
80°	959.9	283.1	51.8	34.5	20.7	10.4	3.5	0.0	6.9	6.9	3.5
82.5°	262.4	103.6	38.0	27.6	17.3	10.4	3.5	0.0	6.9	6.9	6.9
85°	103.6	48.3	34.5	27.6	20.7	10.4	3.5	0.0	6.9	6.9	6.9
87.5°	48.3	34.5	34.5	31.1	24.2	10.4	3.5	0.0	6.9	3.5	6.9
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)