

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: P456299

Luminaire Tested: **GALN-SA7C-740-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39205 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

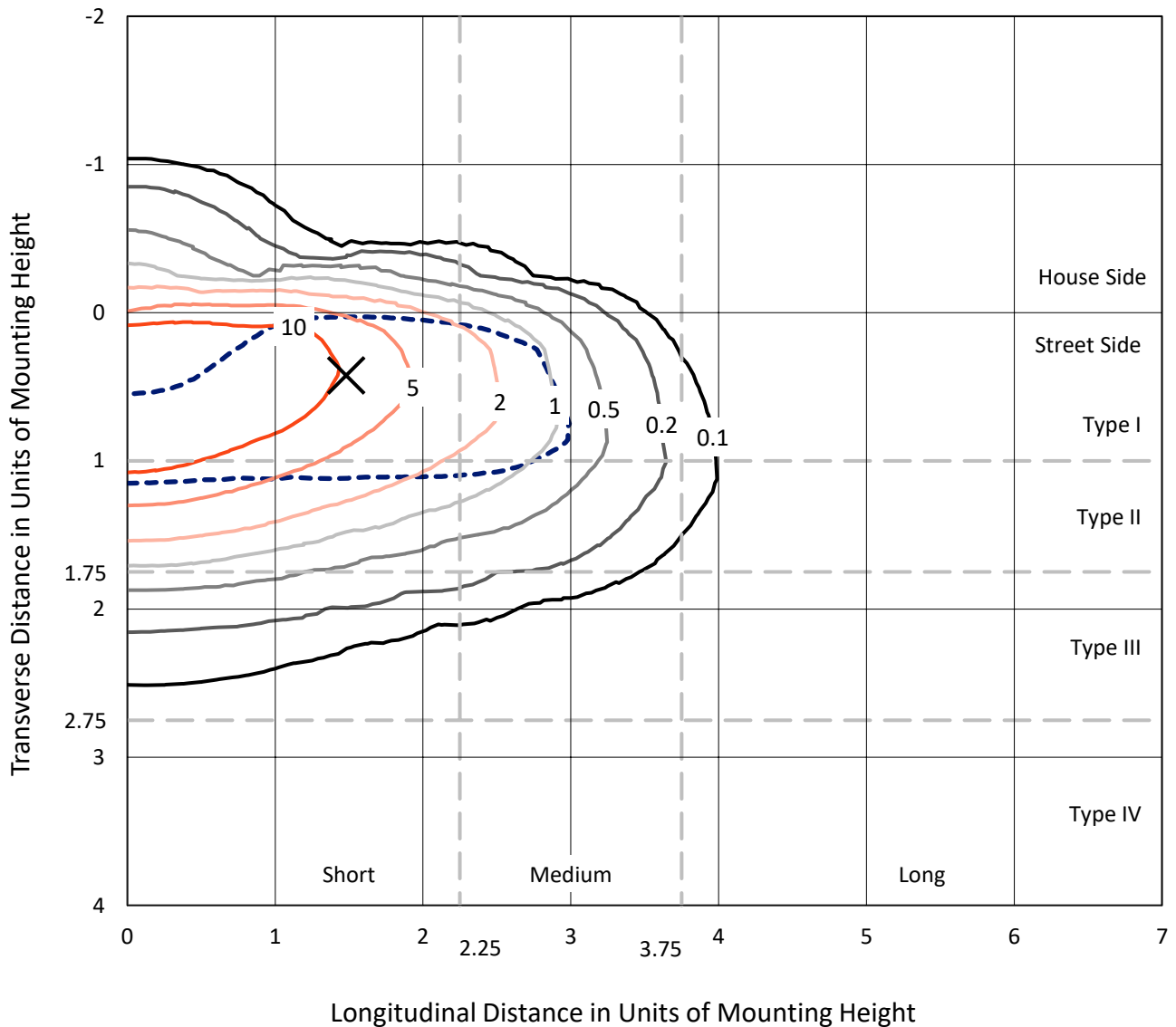
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

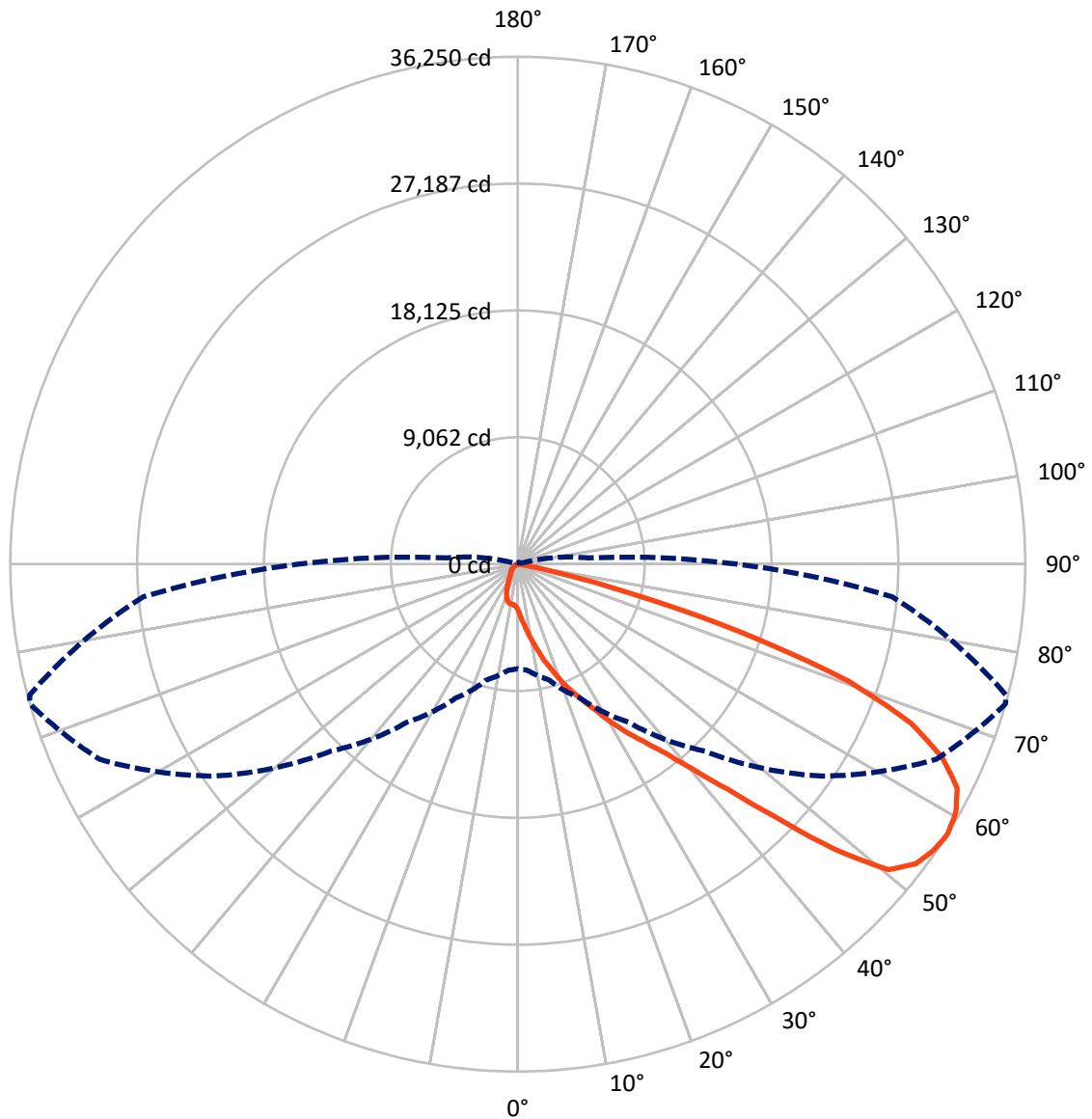
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2261.2	0.0	2261.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	36943.8	0.0	36943.8
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	39205.0	0.0	39205.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.3	1.0
10°-20°	1562.1	4.0
20°-30°	3342.5	8.5
30°-40°	6143.5	15.7
40°-50°	9418.1	24.0
50°-60°	9963.0	25.4
60°-70°	6506.1	16.6
70°-80°	1777.7	4.5
80°-90°	95.7	0.2
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°	39205.0	100.0
0°-180°	39205.0	100.0

**Coefficient of Utilization**



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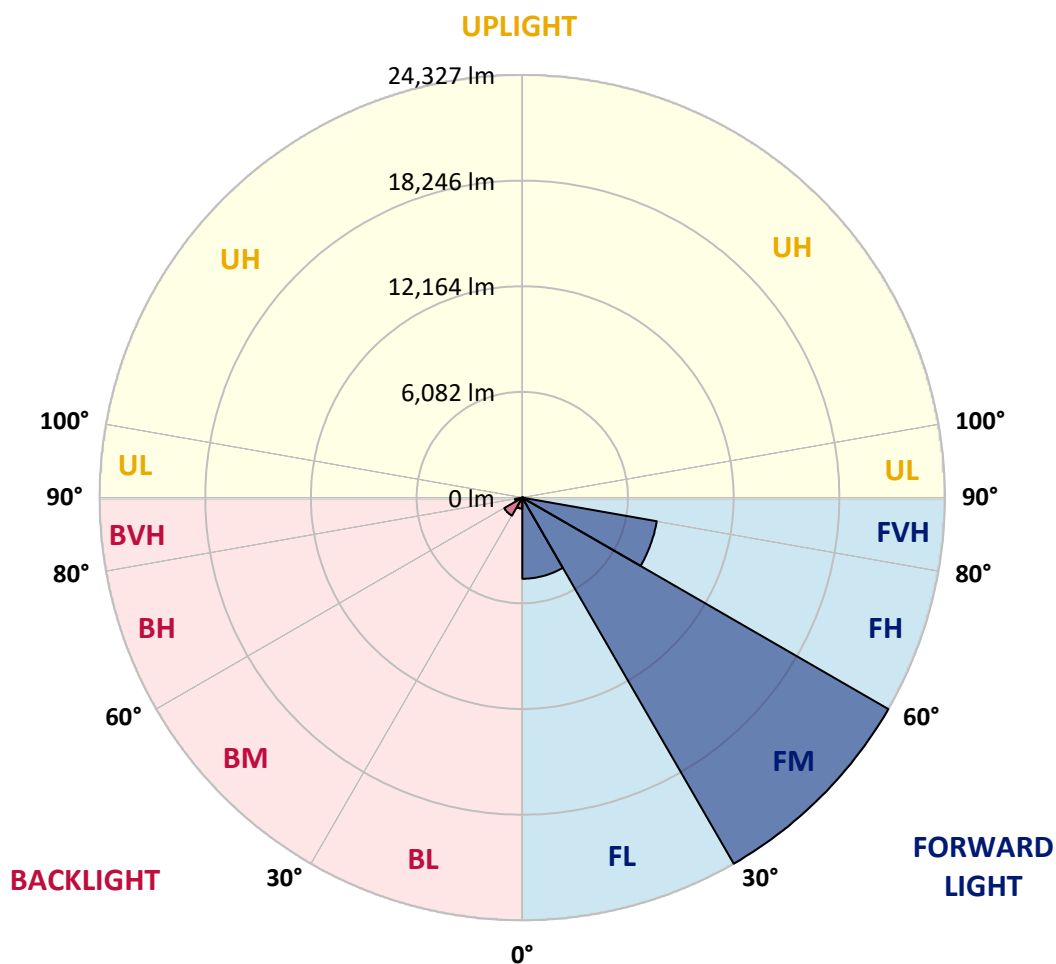
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4669.3	11.9			
FM (30°-60°)	24327.4	62.1			
FH (60°-80°)	7859.3	20.0			G4/12000
FVH (80°-90°)	87.8	0.2			G1/100
BL (0°-30°)	631.6	1.6	B2/1000		
BM (30°-60°)	1197.1	3.1	B2/2500		
BH (60°-80°)	424.5	1.1	B1/500		G1/500
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4
2.5°	4804.6	4761.3	4674.7	4644.9	4517.7	4320.1	4146.8	3914.1	3730.0	3711.0	3489.1
5°	6434.1	6336.7	6296.1	6101.2	5795.3	5508.4	5015.7	4642.2	4211.8	4179.3	3732.7
7.5°	8004.1	7868.7	7828.1	7644.0	7286.7	6834.7	6195.9	5516.5	4834.4	4772.1	4060.2
10°	9140.9	9159.9	9086.8	8965.0	8675.3	8215.2	7427.5	6499.1	5527.3	5448.8	4428.4
12.5°	9955.7	9953.0	9966.5	9963.8	9809.5	9460.3	8632.0	7562.8	6290.6	6136.4	4850.6
15°	10486.2	10494.3	10534.9	10675.7	10691.9	10475.4	9785.1	8580.6	7175.8	6983.6	5308.1
17.5°	11022.2	11079.0	11144.0	11276.6	11395.7	11309.1	10821.8	9641.7	7977.0	7833.5	5798.0
20°	11907.3	11985.8	11947.9	12029.1	12091.3	12099.5	11723.2	10621.5	8948.7	8707.8	6358.3
22.5°	13322.9	13320.2	13222.8	13076.6	12954.8	12949.4	12608.3	11628.5	9831.2	9598.4	6921.3
25°	15112.2	15120.3	14930.8	14513.9	14210.8	13839.9	13447.5	12510.9	10775.8	10488.9	7514.1
27.5°	17163.9	17112.5	16825.6	16251.7	15650.8	15017.4	14451.7	13536.8	11777.4	11539.2	8193.5
30°	19007.3	18988.3	18652.7	17951.6	17161.2	16525.1	15704.9	14822.5	13073.9	12781.6	8954.1
32.5°	20723.4	20750.5	20284.9	19559.5	18796.1	18062.6	17196.4	16051.4	14346.1	13932.0	9782.4
35°	22063.3	22090.3	21608.5	21004.9	20219.9	19610.9	18785.3	17361.5	15602.1	15252.9	10735.2
37.5°	22777.9	22813.0	22534.2	22079.5	21589.6	21283.7	20515.0	19047.9	17128.7	16917.6	11861.3
40°	22913.2	22953.8	22832.0	22710.2	22683.1	22902.4	22677.7	21034.7	19245.5	18915.2	13539.5
42.5°	22507.2	22561.3	22615.4	22886.1	23438.3	24242.2	25024.5	23730.7	21971.2	21527.3	15591.3
45°	21440.7	21435.3	21649.1	22350.2	23587.2	25303.3	27476.9	27106.1	25685.0	25157.1	18490.3
47.5°	19616.3	19589.2	20052.1	21050.9	22978.2	25498.2	29477.2	31204.2	30424.6	29937.4	21605.8
50°	16836.4	16969.0	17697.2	19091.2	21465.1	24908.1	30094.4	33892.0	34314.3	33797.3	24123.1
52.5°	13580.1	13574.7	14717.0	16609.0	19223.8	23608.8	29664.0	34379.3	35578.4	35183.2	25362.9
55°	10050.4	10120.8	11309.1	13217.4	16314.0	21237.7	28259.2	33878.5	36060.2	35781.4	26180.3
57°	7476.2	7600.7	8553.5	10572.8	13780.4	18890.9	26388.7	32982.6	36249.7	36098.1	26859.7
57.5°	6978.2	6983.6	7912.0	9747.2	13038.7	17989.5	25852.8	32609.0	36244.3	36160.4	26970.7
60°	4295.7	4431.1	5072.6	6588.4	9544.2	14040.3	22260.9	30462.5	35962.8	36084.6	27444.4
62.5°	2571.5	2628.3	3045.2	3970.9	6152.6	10248.0	18216.9	27715.1	35229.2	35600.0	27411.9
65°	1653.9	1667.4	1856.9	2403.7	3846.4	6926.7	14037.5	24085.2	33331.7	34013.8	26340.0
67.5°	1277.6	1299.3	1375.1	1578.1	2230.4	4314.7	9928.6	20211.8	30262.2	31141.9	23741.5
70°	1134.2	1145.0	1172.1	1237.0	1475.2	2436.1	6177.0	15788.9	25094.9	25343.9	18579.6
72.5°	925.7	955.5	1039.4	1061.1	1169.3	1521.2	3437.7	10597.2	16860.8	16923.0	10394.2
75°	717.3	722.7	847.2	909.5	985.3	1047.5	1534.8	5343.3	8098.8	7665.7	4006.1
77.5°	535.9	560.3	617.2	695.7	803.9	749.8	687.5	2013.9	2514.6	2468.6	1163.9
80°	343.8	357.3	430.4	522.4	625.3	489.9	387.1	590.1	552.2	568.4	278.8
82.5°	173.2	175.9	276.1	425.0	397.9	246.3	243.6	240.9	205.7	203.0	129.9
85°	18.9	40.6	178.6	243.6	178.6	81.2	113.7	111.0	108.3	111.0	75.8
87.5°	2.7	2.7	29.8	35.2	24.4	27.1	32.5	35.2	43.3	40.6	32.5
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°	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4	3283.4
2.5°	3380.8	3272.5	3072.2	2880.1	2736.6	2644.6	2525.5	2482.2	2419.9	2411.8	2382.0
5°	3527.0	3321.3	2972.1	2696.0	2474.0	2306.2	2160.0	2038.2	1940.8	1919.1	1930.0
7.5°	3735.4	3429.5	2942.3	2566.1	2257.5	1970.6	1737.8	1594.3	1491.5	1453.6	1459.0
10°	3970.9	3573.0	2936.9	2428.0	1957.0	1605.1	1350.7	1223.5	1163.9	1142.3	1117.9
12.5°	4249.7	3738.1	2923.4	2214.2	1626.8	1280.3	1099.0	1023.2	966.3	950.1	950.1
15°	4563.7	3914.1	2858.4	1948.9	1320.9	1058.4	936.6	877.0	858.1	841.8	841.8
17.5°	4891.2	4087.3	2723.1	1621.4	1096.3	906.8	831.0	795.8	768.7	749.8	749.8
20°	5264.8	4257.8	2506.5	1331.8	925.7	809.3	749.8	709.2	687.5	671.3	665.9
22.5°	5619.3	4395.9	2230.4	1093.6	806.6	728.1	674.0	630.7	609.0	600.9	600.9
25°	5987.5	4479.8	1897.5	904.1	736.3	660.5	600.9	565.7	546.8	541.4	538.7
27.5°	6344.8	4528.5	1605.1	790.4	671.3	598.2	541.4	514.3	495.3	489.9	492.6
30°	6777.9	4536.6	1320.9	709.2	614.4	538.7	487.2	462.9	452.0	446.6	443.9
32.5°	7216.4	4525.8	1109.8	660.5	560.3	487.2	443.9	425.0	416.8	408.7	408.7
35°	7709.0	4469.0	944.7	611.7	508.9	443.9	406.0	389.8	379.0	370.8	368.1
37.5°	8320.8	4439.2	849.9	557.6	462.9	403.3	368.1	351.9	343.8	332.9	330.2
40°	9284.4	4571.8	820.2	508.9	416.8	365.4	332.9	314.0	303.2	292.3	289.6
42.5°	10486.2	4804.6	771.4	460.2	376.2	330.2	297.7	276.1	257.1	243.6	238.2
45°	12042.6	5110.5	695.7	408.7	341.1	292.3	262.6	235.5	211.1	200.3	197.6
47.5°	13674.8	5405.5	628.0	368.1	303.2	259.9	227.4	197.6	175.9	167.8	165.1
50°	14676.4	5465.1	584.7	322.1	265.3	224.7	192.2	165.1	151.6	143.5	143.5
52.5°	15133.8	5370.3	525.1	281.5	230.1	197.6	165.1	143.5	135.3	129.9	127.2
55°	15453.2	5224.2	446.6	243.6	197.6	167.8	146.2	129.9	119.1	113.7	111.0
57°	15640.0	5026.6	387.1	213.8	170.5	146.2	129.9	116.4	105.6	94.7	94.7
57.5°	15648.1	4950.8	370.8	211.1	162.4	140.8	127.2	113.7	100.2	89.3	86.6
60°	15407.2	4431.1	297.7	178.6	129.9	119.1	105.6	89.3	70.4	59.5	56.8
62.5°	14633.0	3770.6	246.3	151.6	105.6	92.0	75.8	67.7	48.7	35.2	35.2
65°	13461.0	3058.7	211.1	121.8	86.6	67.7	51.4	48.7	29.8	16.2	13.5
67.5°	11766.5	2382.0	178.6	100.2	73.1	48.7	35.2	32.5	16.2	5.4	0.0
70°	8965.0	1624.1	148.9	81.2	54.1	35.2	24.4	18.9	10.8	2.7	0.0
72.5°	5167.3	893.2	124.5	62.3	40.6	27.1	18.9	10.8	10.8	0.0	0.0
75°	1846.0	384.4	94.7	46.0	32.5	21.7	13.5	5.4	8.1	2.7	0.0
77.5°	587.4	205.7	62.3	35.2	27.1	16.2	10.8	5.4	5.4	2.7	0.0
80°	173.2	108.3	37.9	29.8	18.9	13.5	8.1	2.7	5.4	2.7	0.0
82.5°	94.7	54.1	29.8	21.7	18.9	10.8	8.1	2.7	2.7	2.7	0.0
85°	48.7	32.5	24.4	21.7	18.9	10.8	8.1	2.7	0.0	2.7	2.7
87.5°	27.1	24.4	24.4	21.7	18.9	13.5	8.1	2.7	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)