

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: P452790

Luminaire Tested: **GALN-SA3D-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452790  
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-SA3D-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 16838 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

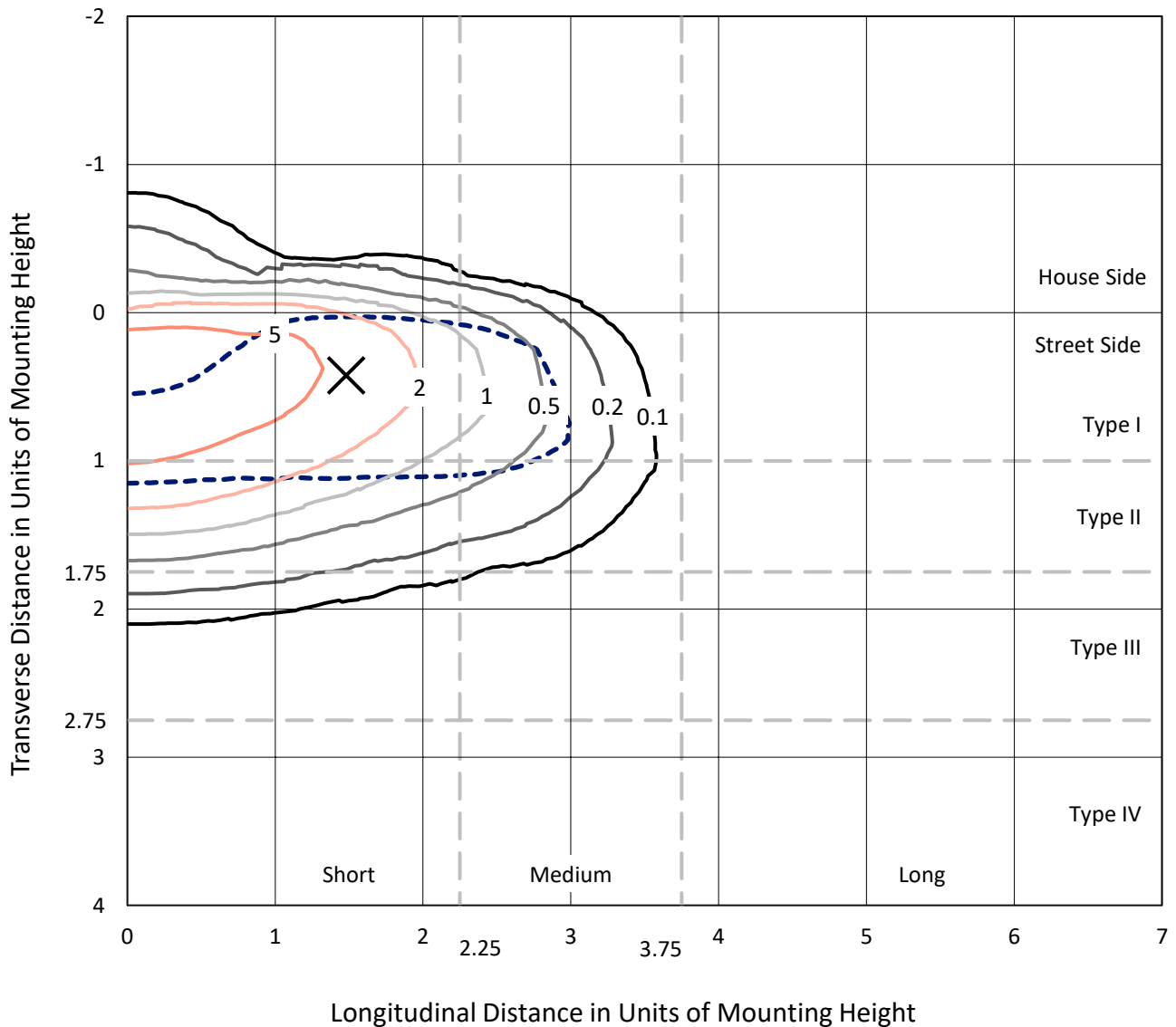
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

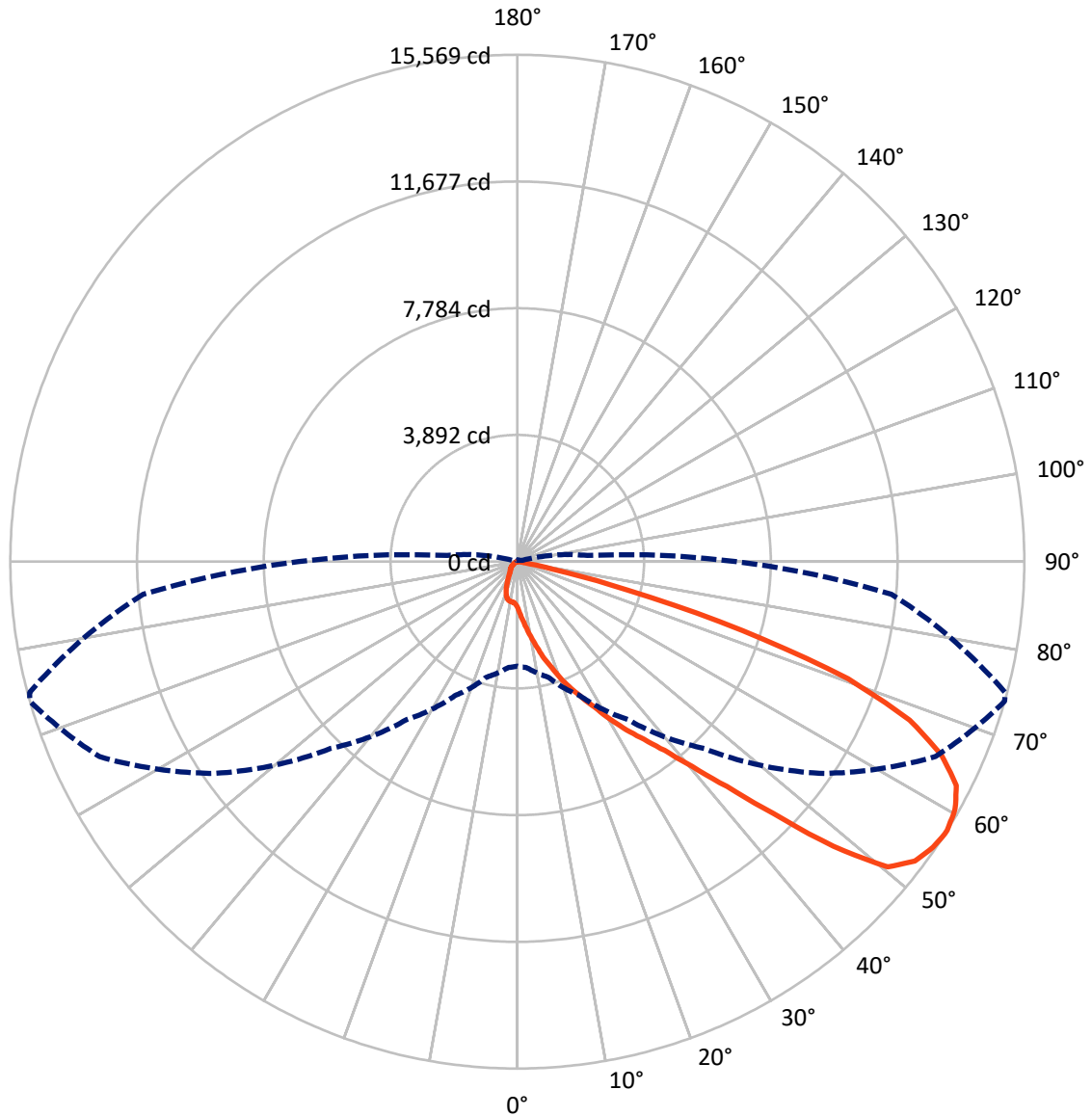
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	971.2	0.0	971.2
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	15866.8	0.0	15866.8
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	16838.0	0.0	16838.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.2	1.0
10°-20°	670.9	4.0
20°-30°	1435.6	8.5
30°-40°	2638.5	15.7
40°-50°	4044.9	24.0
50°-60°	4279.0	25.4
60°-70°	2794.3	16.6
70°-80°	763.5	4.5
80°-90°	41.1	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°	16838.0	100.0
0°-180°	16838.0	100.0

**Coefficient of Utilization**



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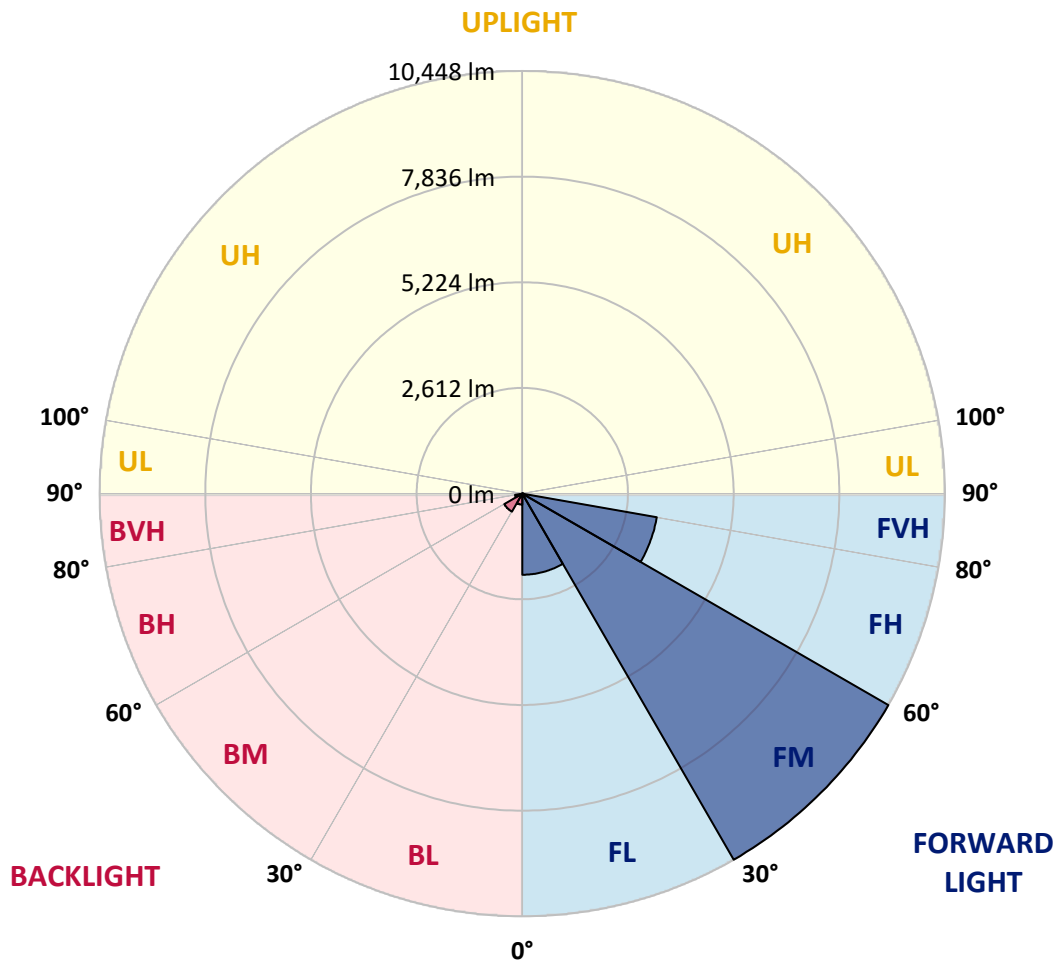
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2005.4	11.9			
FM (30°-60°)	10448.3	62.1			
FH (60°-80°)	3375.5	20.0			G2/5000
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	271.3	1.6	B1/500		
BM (30°-60°)	514.2	3.1	B1/1000		
BH (60°-80°)	182.3	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2
2.5°	2063.5	2044.9	2007.7	1994.9	1940.3	1855.4	1781.0	1681.0	1602.0	1593.8	1498.5
5°	2763.4	2721.5	2704.1	2620.4	2489.0	2365.8	2154.2	1993.8	1808.9	1795.0	1603.1
7.5°	3437.6	3379.5	3362.1	3283.0	3129.6	2935.4	2661.1	2369.3	2076.3	2049.6	1743.8
10°	3925.9	3934.0	3902.6	3850.3	3725.9	3528.3	3190.0	2791.3	2373.9	2340.2	1901.9
12.5°	4275.8	4274.7	4280.5	4279.3	4213.0	4063.1	3707.3	3248.1	2701.7	2635.5	2083.3
15°	4503.7	4507.2	4524.6	4585.1	4592.0	4499.0	4202.6	3685.3	3081.9	2999.4	2279.7
17.5°	4733.9	4758.3	4786.2	4843.1	4894.3	4857.1	4647.8	4141.0	3426.0	3364.4	2490.2
20°	5114.0	5147.7	5131.4	5166.3	5193.1	5196.6	5035.0	4561.8	3843.4	3739.9	2730.8
22.5°	5722.0	5720.9	5679.0	5616.2	5563.9	5561.6	5415.1	4994.3	4222.3	4122.4	2972.6
25°	6490.5	6493.9	6412.6	6233.5	6103.3	5944.1	5775.5	5373.3	4628.1	4504.8	3227.2
27.5°	7371.7	7349.6	7226.3	6979.9	6721.8	6449.8	6206.8	5813.9	5058.2	4955.9	3519.0
30°	8163.4	8155.2	8011.1	7710.0	7370.5	7097.3	6745.1	6366.1	5615.1	5489.5	3845.7
32.5°	8900.4	8912.0	8712.1	8400.5	8072.7	7757.6	7385.6	6893.9	6161.5	5983.6	4201.4
35°	9475.9	9487.5	9280.6	9021.3	8684.2	8422.6	8068.0	7456.5	6700.9	6550.9	4610.6
37.5°	9782.8	9797.9	9678.1	9482.8	9272.4	9141.0	8810.9	8180.8	7356.6	7265.9	5094.2
40°	9840.9	9858.3	9806.0	9753.7	9742.1	9836.2	9739.8	9034.1	8265.7	8123.8	5815.0
42.5°	9666.5	9689.8	9713.0	9829.3	10066.4	10411.7	10747.7	10192.0	9436.3	9245.7	6696.2
45°	9208.5	9206.2	9298.0	9599.1	10130.4	10867.4	11800.9	11641.7	11031.3	10804.6	7941.3
47.5°	8424.9	8413.3	8612.1	9041.1	9868.8	10951.1	12660.1	13401.8	13066.9	12857.7	9279.4
50°	7231.0	7288.0	7600.7	8199.4	9218.9	10697.7	12925.1	14556.2	14737.5	14515.5	10360.6
52.5°	5832.5	5830.1	6320.7	7133.3	8256.4	10139.7	12740.3	14765.4	15280.4	15110.7	10893.0
55°	4316.5	4346.7	4857.1	5676.7	7006.6	9121.3	12136.9	14550.3	15487.4	15367.6	11244.1
57°	3210.9	3264.4	3673.6	4540.9	5918.5	8113.4	11333.6	14165.5	15568.7	15503.6	11535.9
57.5°	2997.0	2999.4	3398.1	4186.3	5600.0	7726.2	11103.4	14005.1	15566.4	15530.4	11583.5
60°	1845.0	1903.1	2178.6	2829.6	4099.1	6030.1	9560.7	13083.2	15445.5	15497.8	11787.0
62.5°	1104.4	1128.8	1307.9	1705.4	2642.5	4401.4	7823.9	11903.2	15130.5	15289.7	11773.0
65°	710.3	716.1	797.5	1032.3	1652.0	2974.9	6028.9	10344.3	14315.5	14608.5	11312.7
67.5°	548.7	558.0	590.6	677.8	957.9	1853.1	4264.2	8680.7	12997.2	13375.0	10196.6
70°	487.1	491.8	503.4	531.3	633.6	1046.3	2652.9	6781.1	10777.9	10884.9	7979.7
72.5°	397.6	410.4	446.4	455.7	502.2	653.3	1476.4	4551.3	7241.5	7268.2	4464.2
75°	308.1	310.4	363.9	390.6	423.2	449.9	659.2	2294.9	3478.3	3292.3	1720.6
77.5°	230.2	240.6	265.1	298.8	345.3	322.0	295.3	864.9	1080.0	1060.2	499.9
80°	147.6	153.5	184.8	224.4	268.5	210.4	166.2	253.4	237.2	244.1	119.7
82.5°	74.4	75.6	118.6	182.5	170.9	105.8	104.6	103.5	88.4	87.2	55.8
85°	8.1	17.4	76.7	104.6	76.7	34.9	48.8	47.7	46.5	47.7	32.6
87.5°	1.2	1.2	12.8	15.1	10.5	11.6	14.0	15.1	18.6	17.4	14.0
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°	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2	1410.2
2.5°	1452.0	1405.5	1319.5	1236.9	1175.3	1135.8	1084.6	1066.0	1039.3	1035.8	1023.0
5°	1514.8	1426.4	1276.5	1157.9	1062.6	990.5	927.7	875.4	833.5	824.2	828.9
7.5°	1604.3	1472.9	1263.7	1102.1	969.6	846.3	746.4	684.7	640.6	624.3	626.6
10°	1705.4	1534.6	1261.4	1042.8	840.5	689.4	580.1	525.5	499.9	490.6	480.1
12.5°	1825.2	1605.5	1255.5	951.0	698.7	549.9	472.0	439.4	415.0	408.1	408.1
15°	1960.0	1681.0	1227.6	837.0	567.3	454.6	402.2	376.7	368.5	361.5	361.5
17.5°	2100.7	1755.4	1169.5	696.4	470.8	389.5	356.9	341.8	330.2	322.0	322.0
20°	2261.1	1828.7	1076.5	572.0	397.6	347.6	322.0	304.6	295.3	288.3	286.0
22.5°	2413.4	1888.0	957.9	469.7	346.4	312.7	289.5	270.9	261.6	258.1	258.1
25°	2571.5	1924.0	814.9	388.3	316.2	283.7	258.1	243.0	234.8	232.5	231.3
27.5°	2725.0	1944.9	689.4	339.5	288.3	256.9	232.5	220.9	212.7	210.4	211.6
30°	2911.0	1948.4	567.3	304.6	263.9	231.3	209.3	198.8	194.1	191.8	190.7
32.5°	3099.3	1943.8	476.6	283.7	240.6	209.3	190.7	182.5	179.0	175.5	175.5
35°	3310.9	1919.4	405.7	262.7	218.6	190.7	174.4	167.4	162.8	159.3	158.1
37.5°	3573.6	1906.6	365.0	239.5	198.8	173.2	158.1	151.1	147.6	143.0	141.8
40°	3987.5	1963.5	352.2	218.6	179.0	156.9	143.0	134.9	130.2	125.6	124.4
42.5°	4503.7	2063.5	331.3	197.6	161.6	141.8	127.9	118.6	110.4	104.6	102.3
45°	5172.1	2194.9	298.8	175.5	146.5	125.6	112.8	101.1	90.7	86.0	84.9
47.5°	5873.2	2321.6	269.7	158.1	130.2	111.6	97.7	84.9	75.6	72.1	70.9
50°	6303.3	2347.2	251.1	138.3	113.9	96.5	82.5	70.9	65.1	61.6	61.6
52.5°	6499.8	2306.5	225.5	120.9	98.8	84.9	70.9	61.6	58.1	55.8	54.6
55°	6636.9	2243.7	191.8	104.6	84.9	72.1	62.8	55.8	51.2	48.8	47.7
57°	6717.2	2158.8	166.2	91.8	73.2	62.8	55.8	50.0	45.3	40.7	40.7
57.5°	6720.6	2126.3	159.3	90.7	69.8	60.5	54.6	48.8	43.0	38.4	37.2
60°	6617.2	1903.1	127.9	76.7	55.8	51.2	45.3	38.4	30.2	25.6	24.4
62.5°	6284.7	1619.4	105.8	65.1	45.3	39.5	32.6	29.1	20.9	15.1	15.1
65°	5781.3	1313.7	90.7	52.3	37.2	29.1	22.1	20.9	12.8	7.0	5.8
67.5°	5053.6	1023.0	76.7	43.0	31.4	20.9	15.1	14.0	7.0	2.3	0.0
70°	3850.3	697.5	63.9	34.9	23.3	15.1	10.5	8.1	4.7	1.2	0.0
72.5°	2219.3	383.6	53.5	26.7	17.4	11.6	8.1	4.7	4.7	0.0	0.0
75°	792.9	165.1	40.7	19.8	14.0	9.3	5.8	2.3	3.5	1.2	0.0
77.5°	252.3	88.4	26.7	15.1	11.6	7.0	4.7	2.3	2.3	1.2	0.0
80°	74.4	46.5	16.3	12.8	8.1	5.8	3.5	1.2	2.3	1.2	0.0
82.5°	40.7	23.3	12.8	9.3	8.1	4.7	3.5	1.2	1.2	1.2	0.0
85°	20.9	14.0	10.5	9.3	8.1	4.7	3.5	1.2	0.0	1.2	1.2
87.5°	11.6	10.5	10.5	9.3	8.1	5.8	3.5	1.2	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)