

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: P456283

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40120 lumens  
Efficiency: N/A  
Efficacy: 106.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

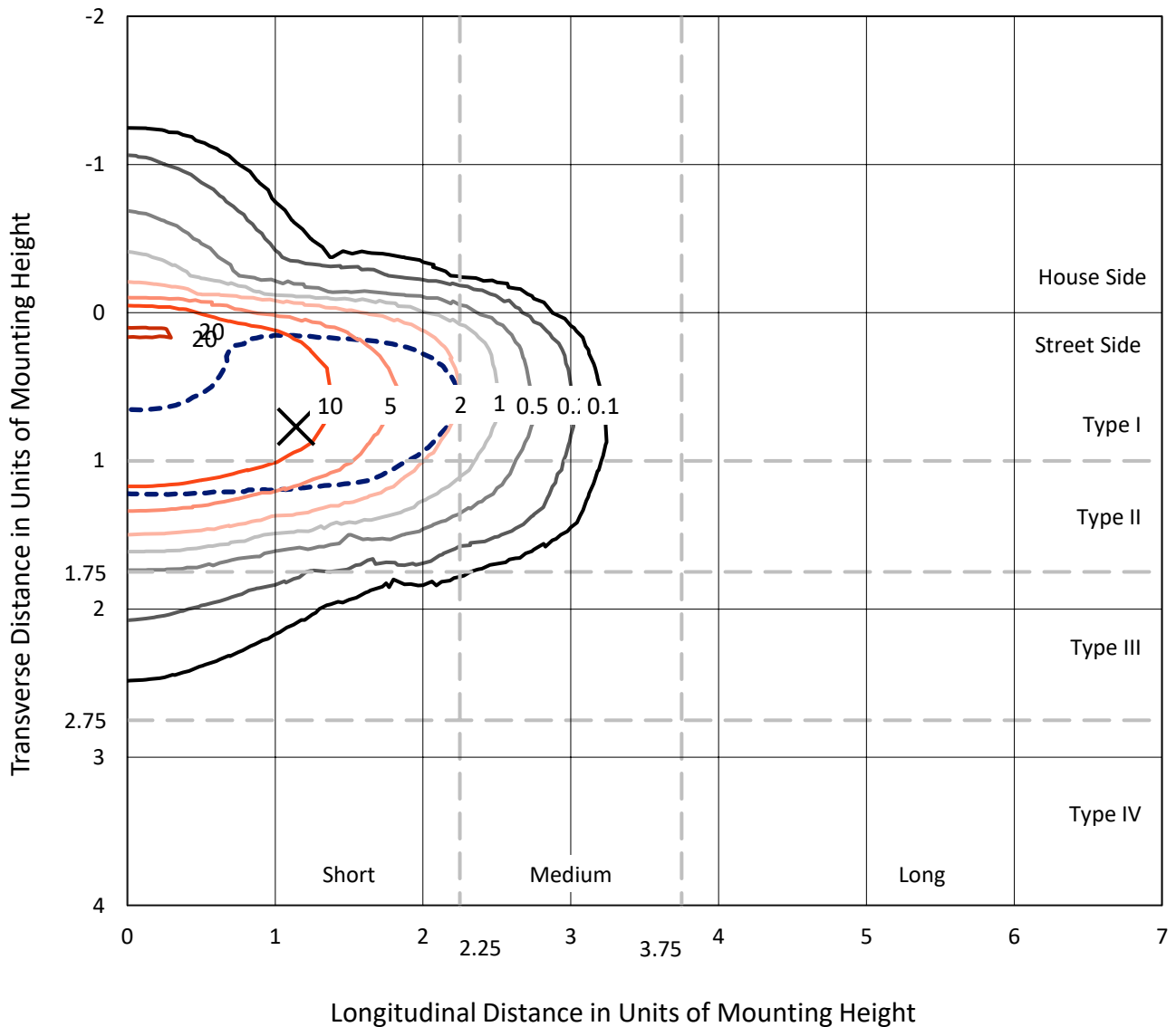
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

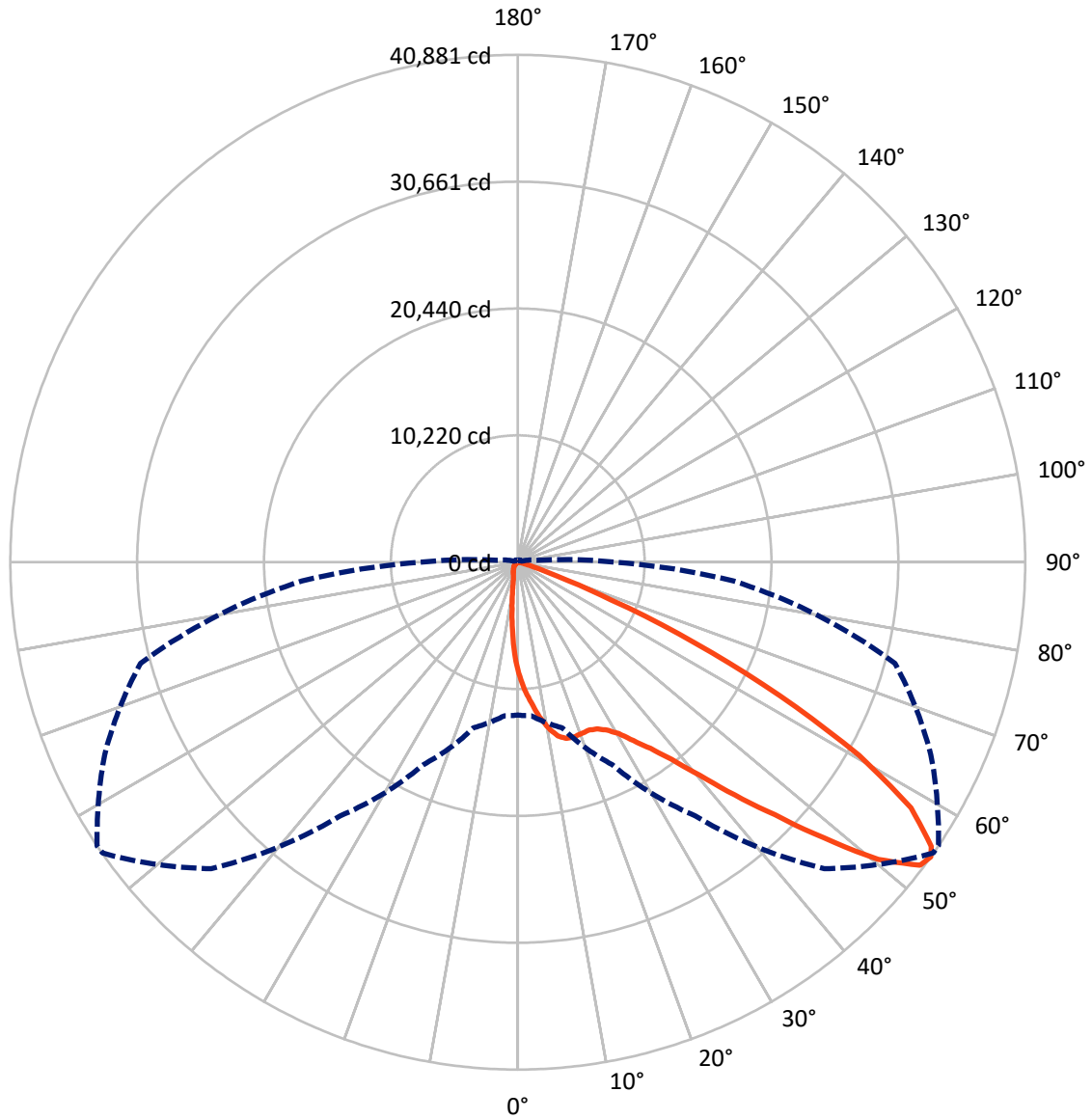
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1897.2	0.0	1897.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	38222.8	0.0	38222.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	40120.0	0.0	40120.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	787.6	2.0
10°-20°	2129.3	5.3
20°-30°	3687.7	9.2
30°-40°	6365.6	15.9
40°-50°	10834.5	27.0
50°-60°	10722.1	26.7
60°-70°	4893.8	12.2
70°-80°	628.5	1.6
80°-90°	70.8	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°	40120.0	100.0
0°-180°	40120.0	100.0

**Coefficient of Utilization**



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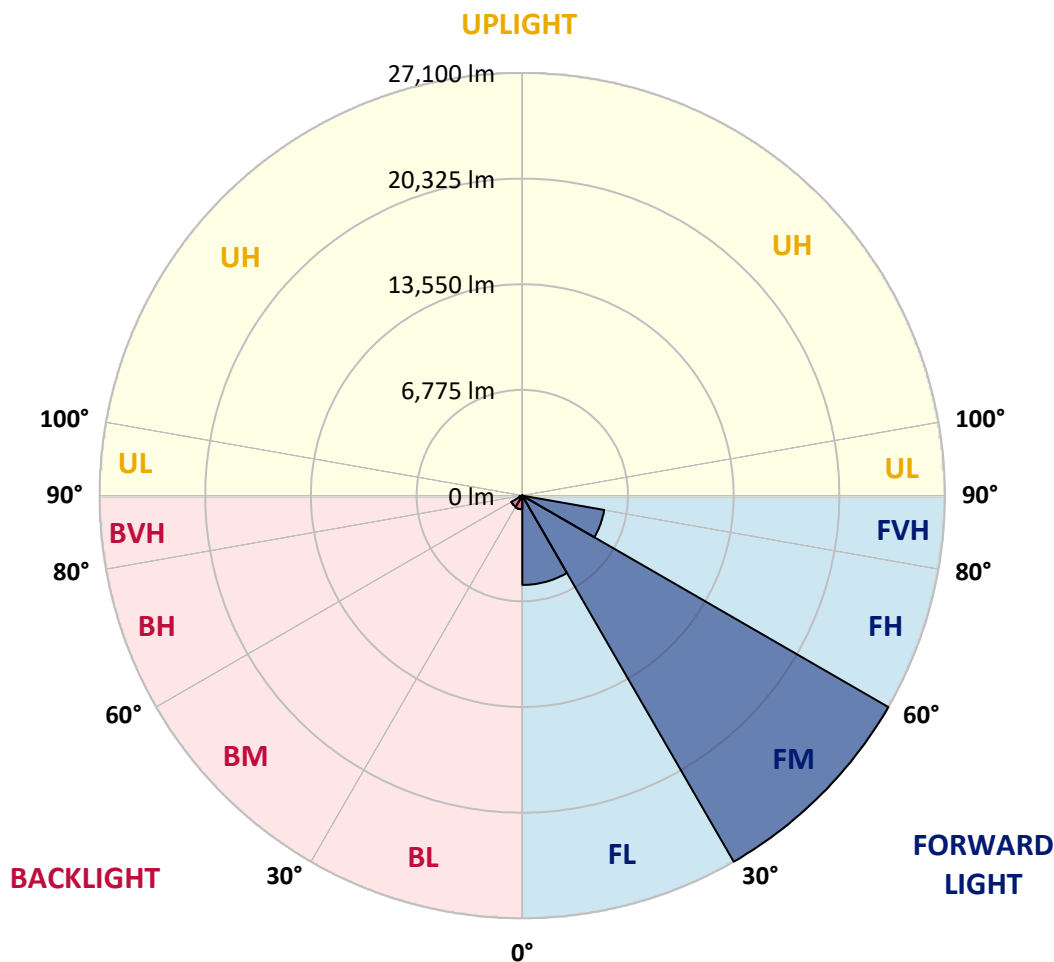
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5727.3	14.3			
FM	(30°-60°)	27100.0	67.5			
FH	(60°-80°)	5332.3	13.3			G3/7500
FVH	(80°-90°)	63.2	0.2			G1/100
BL	(0°-30°)	877.4	2.2	B2/1000		
BM	(30°-60°)	822.2	2.0	B1/1000		
BH	(60°-80°)	190.0	0.5	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5
2.5°	11328.0	11249.5	11141.2	11057.3	10859.7	10575.5	10275.0	10275.0	9985.4	9582.1	9170.7
5°	13065.8	13014.3	12908.8	12692.2	12470.3	12072.4	11468.7	11363.2	10846.2	10115.3	9346.6
7.5°	13772.2	13796.6	13802.0	13745.2	13639.6	13247.1	12648.9	12575.8	11750.2	10770.4	9576.7
10°	13095.5	13214.6	13331.0	13566.5	13899.4	13994.2	13655.8	13580.0	12768.0	11433.5	9825.7
12.5°	12088.6	12153.6	12218.5	12589.4	13257.9	14024.0	14378.6	14375.8	13688.3	12094.0	10142.4
15°	11620.3	11677.2	11682.6	11847.7	12426.9	13542.1	14687.1	14727.7	14587.0	12908.8	10483.5
17.5°	11717.8	11763.8	11725.9	11766.5	12069.6	13011.6	14651.9	14787.3	15315.1	13691.0	10792.0
20°	12353.9	12443.2	12297.0	12183.3	12275.4	12870.9	14532.8	14722.3	15829.4	14454.3	11073.5
22.5°	13496.1	13544.9	13360.8	13049.5	12887.1	13165.9	14500.4	14687.1	16267.9	15079.6	11235.9
25°	14765.6	14749.4	14546.4	14197.2	13856.1	13761.4	14714.2	14882.0	16630.6	15642.6	11284.7
27.5°	16035.1	16083.8	15742.8	15309.7	14901.0	14654.6	15193.3	15317.8	17039.3	16284.1	11344.2
30°	17510.3	17431.8	17096.2	16600.8	16132.6	15788.8	15964.7	15999.9	17602.4	17134.1	11501.2
32.5°	19429.5	19212.9	18836.7	17970.5	17634.8	17052.9	17096.2	17139.5	18287.2	17975.9	11690.7
35°	22033.4	22022.6	21286.3	20119.7	19302.2	18579.5	18390.0	18425.2	19323.9	19226.4	12110.2
37.5°	25167.9	25211.2	24372.1	23197.3	21692.3	20544.7	20154.9	20160.3	20899.2	20953.4	12749.1
40°	27720.4	27834.1	27333.3	26540.2	25054.2	23259.6	22604.5	22545.0	23113.4	23045.7	13661.2
42.5°	28819.4	28924.9	29111.7	29387.8	28570.3	27089.7	25544.1	25625.3	25798.6	25324.9	14684.4
45°	28280.7	28448.5	29182.1	30887.4	31656.1	31158.0	29314.7	29030.5	28296.9	27801.6	15713.0
47.5°	26036.8	26445.5	27671.7	30511.1	33201.7	34885.3	33569.8	33193.6	30798.0	29609.7	16368.1
50°	22347.4	22371.7	24079.7	27709.6	32400.5	37237.5	37914.2	37632.7	33128.6	30624.8	16698.3
52.5°	16200.2	16733.5	18298.0	22501.7	28930.3	36880.2	40683.3	40566.9	35532.2	31144.5	17174.7
54°	12316.0	12418.8	13810.1	17981.3	24943.2	34917.8	40853.8	40880.9	36725.9	31458.5	17456.2
55°	10096.4	9850.1	11311.7	15317.8	22222.9	33182.7	40296.2	40426.1	37261.9	31620.9	17664.6
57.5°	4785.6	4788.3	5906.2	8079.8	13918.4	25766.1	36888.3	37348.5	37321.4	31899.7	18306.1
60°	2422.6	2438.8	2685.2	3730.0	6875.3	17128.7	30500.3	31596.5	34449.5	31940.3	18517.3
62.5°	1694.5	1675.5	1634.9	1794.6	2893.6	8705.1	22707.4	23660.2	29268.7	30394.7	17846.0
65°	1450.8	1410.2	1296.6	1272.2	1461.7	3467.4	14143.1	15696.8	22347.4	26318.3	15935.0
67.5°	1239.7	1223.5	1120.6	1058.4	1034.0	1510.4	7297.5	8115.0	15274.5	18917.9	12069.6
70°	1052.9	1044.8	982.6	904.1	836.4	904.1	2706.8	3353.7	8512.9	10185.7	5695.1
72.5°	855.4	863.5	874.3	774.1	703.8	641.5	1155.8	1345.3	3562.2	3640.7	1992.2
75°	749.8	741.7	741.7	674.0	587.4	476.4	636.1	684.8	1090.8	1012.3	462.9
77.5°	527.8	508.9	595.5	554.9	489.9	338.4	362.7	384.4	452.0	387.1	216.5
80°	365.4	365.4	381.7	498.1	441.2	246.3	222.0	238.2	268.0	230.1	124.5
82.5°	205.7	211.1	249.0	265.3	257.1	165.1	146.2	148.9	178.6	157.0	78.5
85°	24.4	40.6	143.5	140.8	105.6	73.1	81.2	83.9	111.0	97.4	46.0
87.5°	2.7	5.4	29.8	37.9	27.1	29.8	29.8	29.8	37.9	43.3	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°	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5	8913.5
2.5°	8948.7	8743.0	8253.1	7684.6	7321.9	6731.8	6233.8	5873.8	5784.4	5611.2	5662.6
5°	8937.9	8510.2	7511.4	6455.7	5329.7	4490.6	3865.3	3372.7	3156.1	3012.7	2912.5
7.5°	8943.3	8274.7	6672.3	4991.3	3646.1	2823.2	2243.9	1943.5	1743.2	1659.3	1670.1
10°	8959.5	8009.4	5697.8	3697.5	2460.5	1824.4	1469.8	1326.3	1258.7	1247.8	1245.1
12.5°	8997.4	7719.8	4766.7	2744.7	1721.5	1326.3	1191.0	1142.3	1120.6	1120.6	1112.5
15°	9038.0	7400.4	3992.5	2040.9	1326.3	1139.6	1077.3	1052.9	1039.4	1039.4	1036.7
17.5°	9038.0	7032.3	3269.8	1583.5	1142.3	1047.5	998.8	966.3	955.5	955.5	952.8
20°	8981.2	6604.6	2628.3	1274.9	1036.7	960.9	912.2	877.0	863.5	858.1	855.4
22.5°	8783.6	6033.5	2092.4	1096.3	950.1	885.1	822.9	782.3	771.4	766.0	768.7
25°	8431.7	5389.2	1656.6	963.6	871.6	793.1	739.0	709.2	698.4	698.4	701.1
27.5°	8069.0	4715.3	1312.8	863.5	776.9	706.5	663.2	644.2	641.5	649.6	652.3
30°	7733.3	4038.6	1063.8	782.3	692.9	633.4	603.6	598.2	598.2	600.9	603.6
32.5°	7359.8	3445.8	890.5	711.9	625.3	573.8	557.6	557.6	563.0	563.0	568.4
35°	7124.3	2936.9	782.3	644.2	573.8	530.5	519.7	522.4	530.5	541.4	546.8
37.5°	6997.1	2530.9	711.9	590.1	525.1	495.3	484.5	489.9	508.9	527.8	530.5
40°	7007.9	2225.0	655.0	544.1	487.2	454.7	446.6	462.9	481.8	500.8	503.5
42.5°	7127.0	1997.6	600.9	489.9	454.7	408.7	406.0	422.3	430.4	449.3	452.0
45°	7267.8	1832.5	544.1	433.1	395.2	354.6	357.3	370.8	381.7	411.4	416.8
47.5°	7311.1	1718.8	479.1	368.1	324.8	311.3	314.0	322.1	343.8	370.8	373.5
50°	7359.8	1648.4	416.8	311.3	276.1	273.4	276.1	281.5	295.0	305.9	303.2
52.5°	7568.2	1645.7	365.4	270.7	235.5	240.9	243.6	240.9	230.1	213.8	208.4
54°	7763.1	1653.9	341.1	251.7	216.5	224.7	222.0	208.4	181.4	165.1	157.0
55°	7920.1	1662.0	327.5	238.2	205.7	208.4	211.1	184.1	148.9	132.6	127.2
57.5°	8228.7	1643.0	295.0	208.4	181.4	170.5	167.8	121.8	81.2	70.4	65.0
60°	8074.4	1483.3	268.0	178.6	154.3	138.0	113.7	67.7	40.6	29.8	29.8
62.5°	7468.1	1258.7	238.2	146.2	127.2	105.6	59.5	37.9	18.9	10.8	8.1
65°	6680.4	1058.4	213.8	116.4	100.2	67.7	32.5	24.4	8.1	0.0	0.0
67.5°	4967.0	785.0	181.4	92.0	75.8	43.3	21.7	13.5	2.7	0.0	0.0
70°	2300.8	479.1	154.3	70.4	54.1	32.5	16.2	8.1	0.0	0.0	0.0
72.5°	660.5	300.5	127.2	51.4	37.9	27.1	13.5	5.4	2.7	0.0	0.0
75°	230.1	240.9	94.7	37.9	29.8	18.9	10.8	5.4	2.7	0.0	0.0
77.5°	138.0	194.9	59.5	32.5	24.4	16.2	10.8	5.4	2.7	2.7	0.0
80°	78.5	129.9	37.9	27.1	21.7	13.5	8.1	5.4	2.7	2.7	0.0
82.5°	43.3	62.3	29.8	24.4	18.9	13.5	8.1	5.4	2.7	2.7	2.7
85°	35.2	32.5	24.4	21.7	16.2	10.8	8.1	2.7	0.0	0.0	0.0
87.5°	27.1	21.7	21.7	21.7	16.2	10.8	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)