

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: P594308

Luminaire Tested: **ISC-PA1E-740-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-740-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8844 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

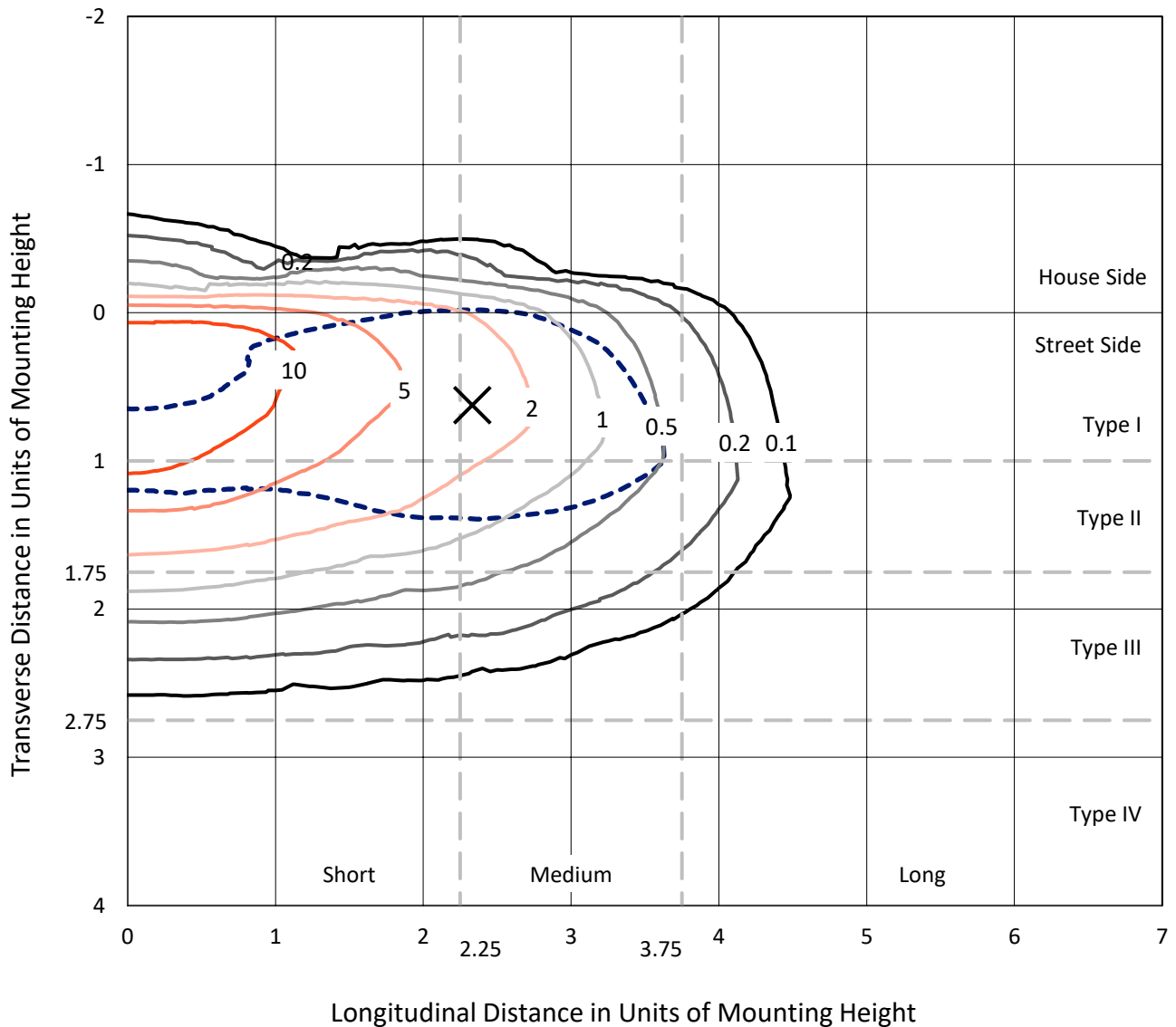
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

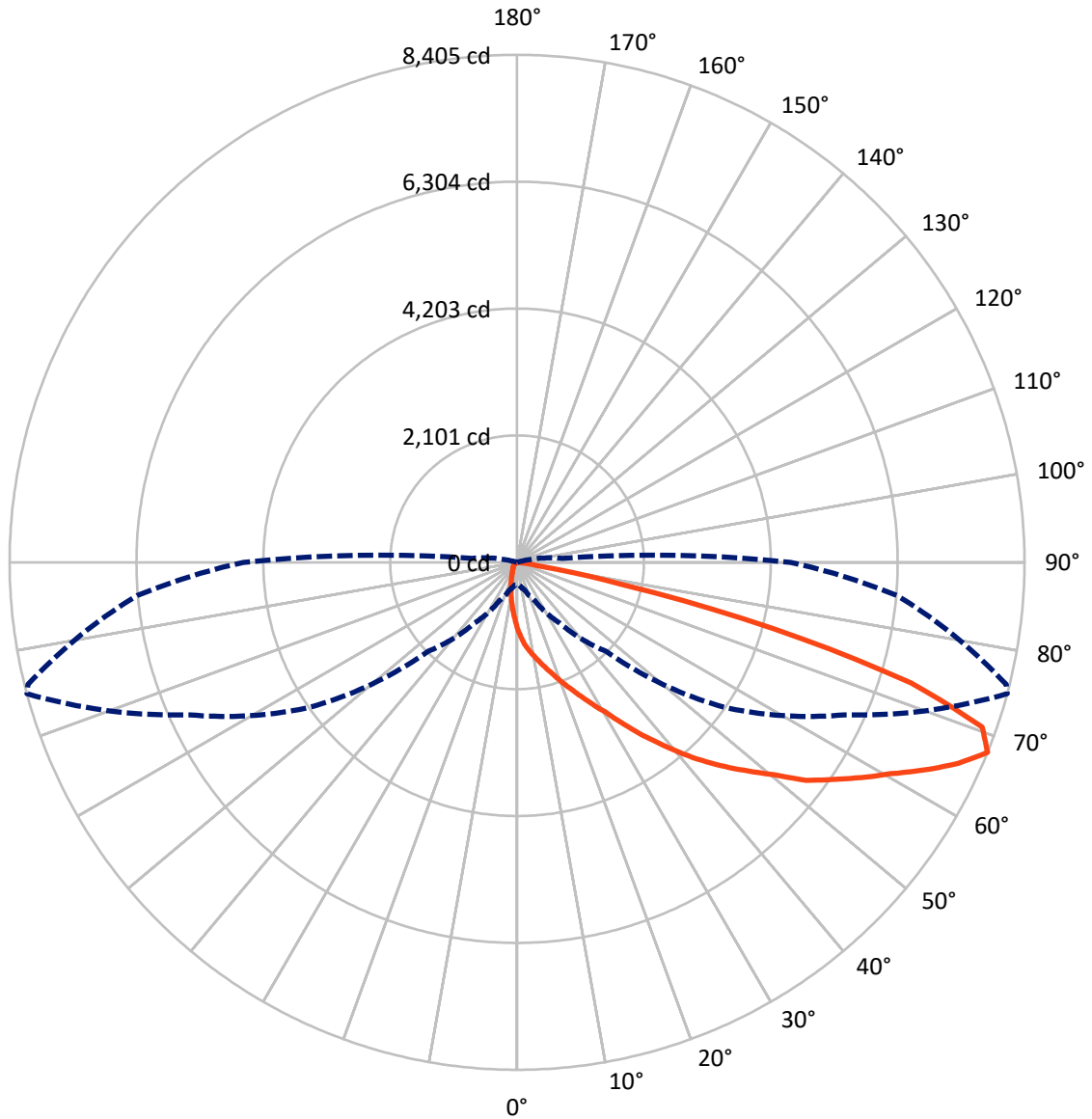
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	445.9	0.0	445.9
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	8398.1	0.0	8398.1
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	8844.0	0.0	8844.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	1.1
10°-20°	319.9	3.6
20°-30°	643.1	7.3
30°-40°	1216.3	13.8
40°-50°	1819.7	20.6
50°-60°	2100.9	23.8
60°-70°	1862.2	21.1
70°-80°	752.7	8.5
80°-90°	30.0	0.3
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°	8844.0	100.0
0°-180°	8844.0	100.0

**Coefficient of Utilization**



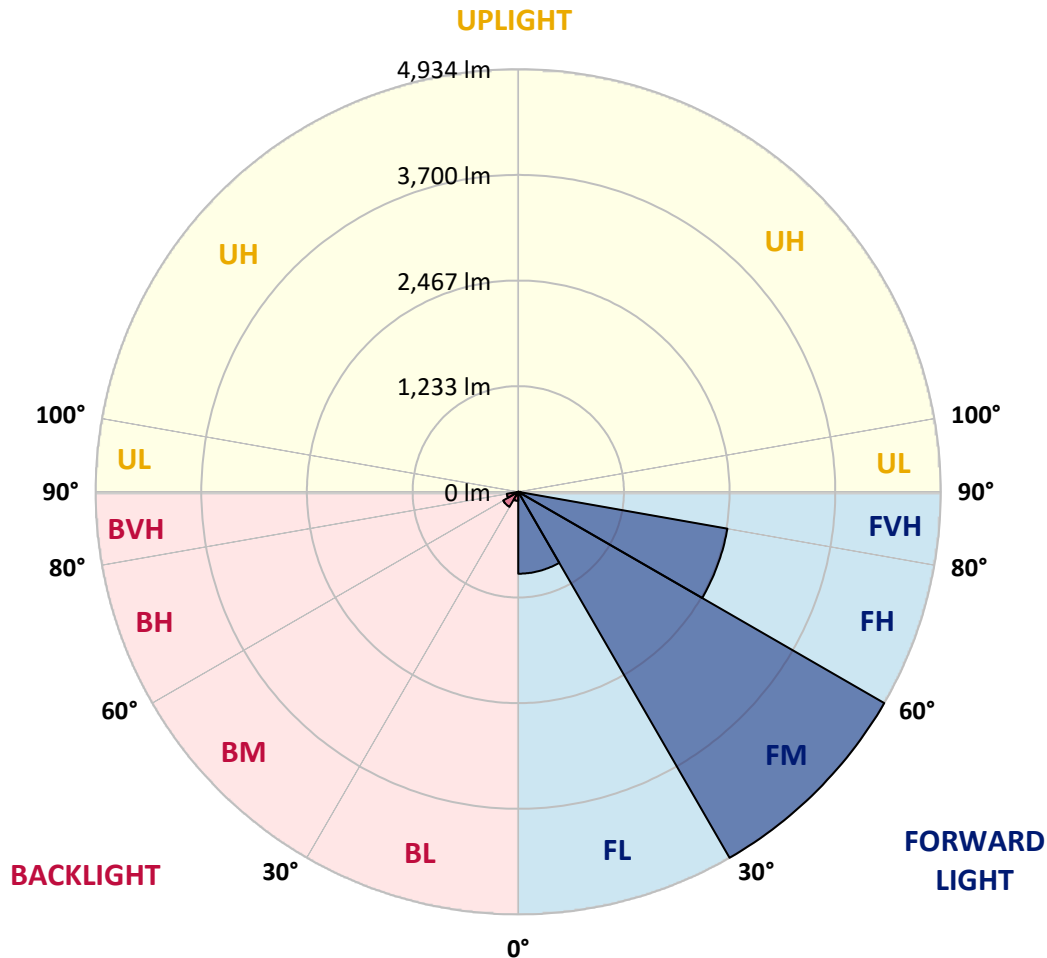
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	956.1	10.8			
FM (30°-60°)	4933.5	55.8			
FH (60°-80°)	2479.7	28.0			G2/5000
FVH (80°-90°)	28.7	0.3			G1/100
BL (0°-30°)	106.0	1.2	B0/110		
BM (30°-60°)	203.4	2.3	B0/220		
BH (60°-80°)	135.2	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1529.2	1534.5	1523.9	1500.0	1478.7	1428.3	1388.5	1316.8	1239.8	1239.8	1146.9
5°	1709.7	1704.4	1699.1	1680.5	1664.6	1622.1	1569.0	1492.0	1372.5	1361.9	1207.9
7.5°	1797.3	1792.0	1781.4	1773.4	1773.4	1744.2	1693.8	1614.1	1481.4	1470.8	1263.7
10°	1900.9	1890.2	1890.2	1869.0	1863.7	1829.2	1802.6	1733.6	1587.6	1574.3	1327.4
12.5°	2023.0	2012.4	2015.0	1996.4	1988.5	1951.3	1914.1	1847.8	1701.7	1688.5	1401.8
15°	2092.0	2086.7	2102.6	2105.3	2110.6	2078.7	2044.2	1975.2	1829.2	1810.6	1489.4
17.5°	2131.8	2131.8	2150.4	2184.9	2224.7	2206.2	2179.6	2123.9	1959.3	1948.6	1582.3
20°	2208.8	2200.9	2232.7	2264.6	2315.0	2330.9	2323.0	2280.5	2115.9	2084.0	1683.2
22.5°	2336.3	2325.6	2354.8	2394.7	2455.7	2461.0	2466.3	2445.1	2275.2	2243.3	1789.4
25°	2636.2	2609.7	2583.2	2577.8	2601.7	2623.0	2607.0	2623.0	2455.7	2426.5	1903.5
27.5°	3220.3	3175.2	3047.7	2907.0	2808.8	2827.4	2777.0	2806.2	2662.8	2625.6	2009.7
30°	3780.5	3735.3	3631.8	3382.3	3156.6	3055.7	2981.4	2970.8	2875.2	2832.7	2131.8
32.5°	4170.7	4141.5	4072.5	3905.3	3623.8	3366.3	3223.0	3172.5	3159.3	3092.9	2288.5
35°	4436.2	4409.7	4361.9	4226.5	4019.4	3732.7	3485.8	3374.3	3475.2	3395.5	2466.3
37.5°	4595.5	4576.9	4523.8	4430.9	4319.4	4130.9	3812.3	3634.5	3793.8	3719.4	2694.7
40°	4712.3	4664.5	4627.4	4555.7	4518.5	4457.5	4184.0	3905.3	4138.9	4061.9	2920.3
42.5°	4722.9	4701.7	4672.5	4630.0	4635.3	4675.2	4579.6	4218.5	4486.7	4415.0	3159.3
45°	4720.3	4699.1	4677.8	4635.3	4661.9	4810.6	4898.2	4547.7	4826.5	4752.1	3411.5
47.5°	4643.3	4627.4	4632.7	4632.7	4667.2	4869.0	5145.1	4882.2	5166.3	5094.6	3716.8
50°	4372.5	4388.4	4494.6	4550.4	4611.4	4871.6	5317.6	5232.7	5532.7	5482.2	4011.5
52.5°	3515.0	3605.3	4035.3	4330.0	4507.9	4818.5	5429.1	5601.7	5997.3	5920.3	4346.0
55°	2686.7	2692.0	3106.2	3791.1	4303.5	4722.9	5492.8	5851.2	6350.4	6307.9	4640.6
57.5°	2179.6	2177.0	2381.4	2997.3	3772.5	4571.6	5508.8	6034.4	6724.7	6645.0	4980.5
60°	1781.4	1770.8	1892.9	2272.5	3082.3	4215.9	5450.4	6183.1	7109.6	7080.4	5336.2
62.5°	1287.6	1298.2	1460.2	1754.8	2376.1	3560.1	5325.6	6228.2	7574.2	7545.0	5734.4
65°	740.7	772.6	950.4	1263.7	1821.2	2784.9	4969.8	6193.7	8028.2	8025.6	6103.5
67.5°	371.7	374.3	469.9	706.2	1223.9	2084.0	4184.0	5976.0	8405.2	8346.8	6315.8
70°	238.9	244.2	276.1	363.7	677.0	1444.2	3196.4	5360.1	8168.9	8147.7	6005.2
72.5°	183.2	188.5	215.0	238.9	353.1	820.3	2163.7	4165.4	6820.3	6761.9	4683.1
75°	143.4	146.0	172.6	193.8	236.3	385.0	1085.8	2596.4	4393.7	4242.4	2665.5
77.5°	114.2	116.8	130.1	154.0	180.5	215.0	321.2	1168.1	1786.7	1595.6	865.5
80°	74.3	77.0	98.2	119.5	154.0	140.7	124.8	337.2	382.3	345.1	154.0
82.5°	42.5	45.1	66.4	95.6	116.8	79.6	71.7	98.2	90.3	87.6	47.8
85°	13.3	13.3	45.1	66.4	53.1	23.9	45.1	34.5	29.2	26.5	15.9
87.5°	2.7	2.7	21.2	23.9	8.0	2.7	5.3	8.0	10.6	13.3	8.0
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°	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1	1099.1
2.5°	1101.8	1048.7	950.4	865.5	783.2	711.5	661.1	615.9	584.1	576.1	562.8
5°	1109.7	1006.2	817.7	658.4	520.3	408.8	345.1	302.7	281.4	268.1	268.1
7.5°	1117.7	963.7	692.9	480.5	329.2	249.6	209.7	191.1	183.2	180.5	177.9
10°	1133.6	931.8	586.7	345.1	225.7	188.5	172.6	164.6	159.3	156.6	156.6
12.5°	1160.2	905.3	488.5	254.9	185.8	167.3	156.6	146.0	140.7	138.1	138.1
15°	1194.7	886.7	403.5	204.4	169.9	151.3	138.1	127.4	119.5	116.8	116.8
17.5°	1242.5	873.4	331.9	180.5	156.6	135.4	119.5	108.8	100.9	98.2	98.2
20°	1290.2	873.4	273.4	167.3	143.4	119.5	103.5	90.3	82.3	79.6	79.6
22.5°	1354.0	870.8	228.3	154.0	127.4	103.5	87.6	71.7	66.4	63.7	63.7
25°	1407.1	870.8	196.5	140.7	111.5	90.3	71.7	58.4	53.1	50.4	50.4
27.5°	1470.8	862.8	167.3	124.8	95.6	74.3	58.4	47.8	42.5	39.8	39.8
30°	1526.5	852.2	148.7	111.5	82.3	61.1	47.8	37.2	34.5	34.5	34.5
32.5°	1619.4	844.2	132.7	95.6	69.0	50.4	37.2	29.2	26.5	26.5	26.5
35°	1731.0	844.2	122.1	82.3	58.4	42.5	29.2	23.9	21.2	21.2	21.2
37.5°	1877.0	852.2	108.8	71.7	47.8	34.5	23.9	18.6	15.9	15.9	15.9
40°	2030.9	870.8	98.2	63.7	42.5	26.5	18.6	13.3	10.6	13.3	13.3
42.5°	2214.1	889.4	87.6	55.8	34.5	21.2	13.3	8.0	5.3	8.0	8.0
45°	2394.7	908.0	82.3	47.8	29.2	15.9	8.0	5.3	2.7	5.3	5.3
47.5°	2617.7	953.1	77.0	42.5	23.9	13.3	5.3	2.7	0.0	2.7	2.7
50°	2875.2	1003.5	69.0	34.5	18.6	10.6	5.3	0.0	0.0	0.0	0.0
52.5°	3122.1	1046.0	61.1	29.2	15.9	8.0	2.7	0.0	0.0	0.0	0.0
55°	3369.0	1072.6	53.1	23.9	13.3	8.0	2.7	0.0	0.0	0.0	0.0
57.5°	3634.5	1088.5	47.8	21.2	10.6	5.3	2.7	0.0	0.0	0.0	0.0
60°	3929.2	1088.5	39.8	18.6	8.0	5.3	2.7	0.0	0.0	0.0	0.0
62.5°	4255.7	1056.6	37.2	15.9	8.0	5.3	2.7	0.0	0.0	0.0	0.0
65°	4521.2	942.5	31.9	13.3	8.0	5.3	2.7	0.0	0.0	0.0	0.0
67.5°	4531.8	746.0	29.2	10.6	8.0	5.3	2.7	0.0	0.0	0.0	0.0
70°	4040.7	509.7	23.9	8.0	5.3	5.3	2.7	0.0	0.0	0.0	0.0
72.5°	3023.9	273.4	21.2	8.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0
75°	1630.1	106.2	13.3	8.0	5.3	2.7	2.7	0.0	0.0	0.0	0.0
77.5°	475.2	53.1	8.0	5.3	5.3	2.7	2.7	0.0	0.0	0.0	0.0
80°	87.6	26.5	5.3	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	10.6	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
85°	10.6	5.3	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	2.7	2.7	2.7	2.7	2.7	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)