

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: P594785

Luminaire Tested: **ISS-PA1E-730-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594785
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: ISS-PA1E-730-U-T2R-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 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: 8055 lumens
Efficiency: N/A
Efficacy: 97.8 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

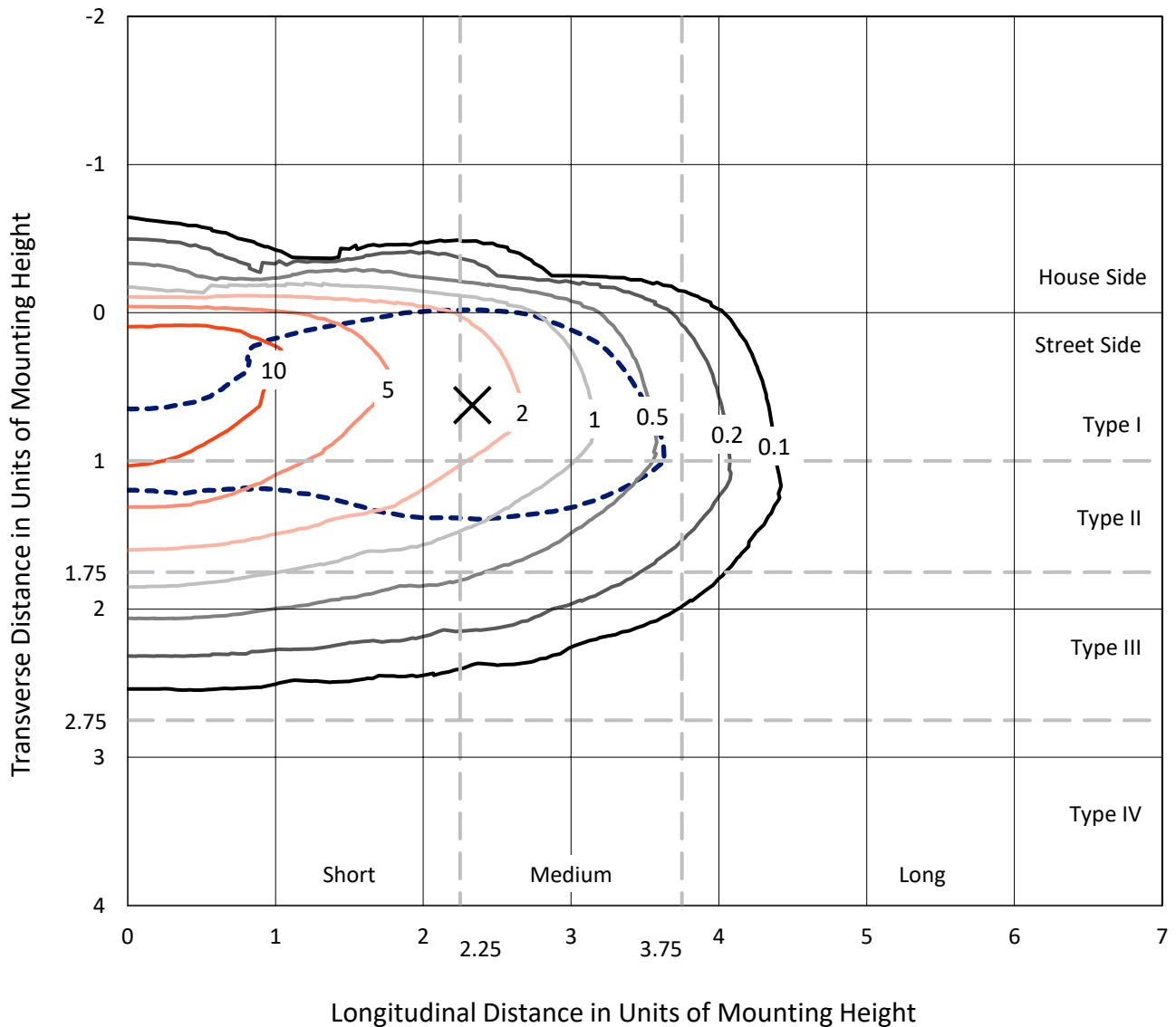
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

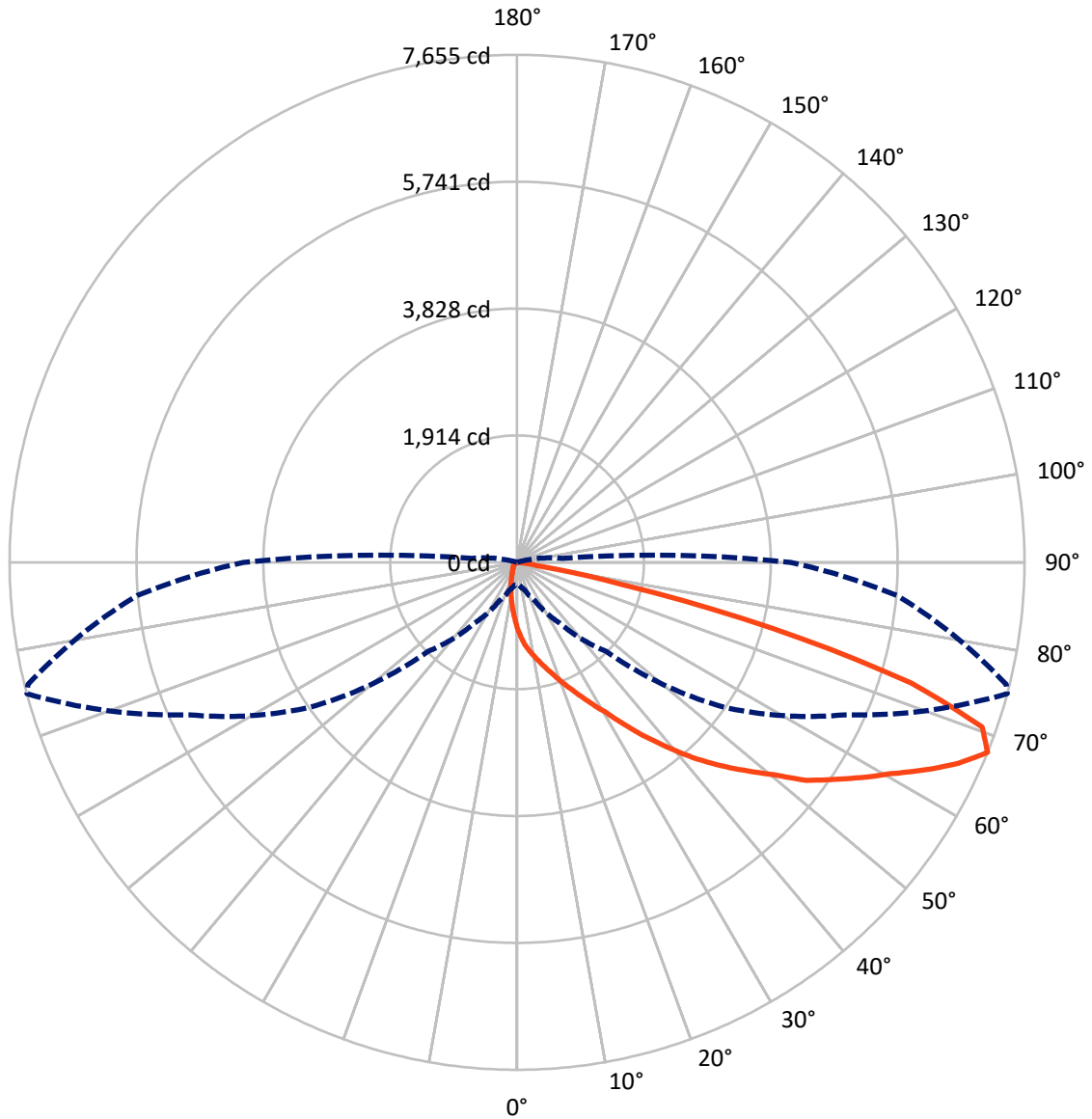
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.8 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
House Side	Lumens	406.1	0.0	406.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7648.9	0.0	7648.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	8055.0	0.0	8055.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.1
10°-20°	291.4	3.6
20°-30°	585.7	7.3
30°-40°	1107.8	13.8
40°-50°	1657.3	20.6
50°-60°	1913.5	23.8
60°-70°	1696.1	21.1
70°-80°	685.6	8.5
80°-90°	27.3	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°	8055.0	100.0
0°-180°	8055.0	100.0

Coefficient of Utilization



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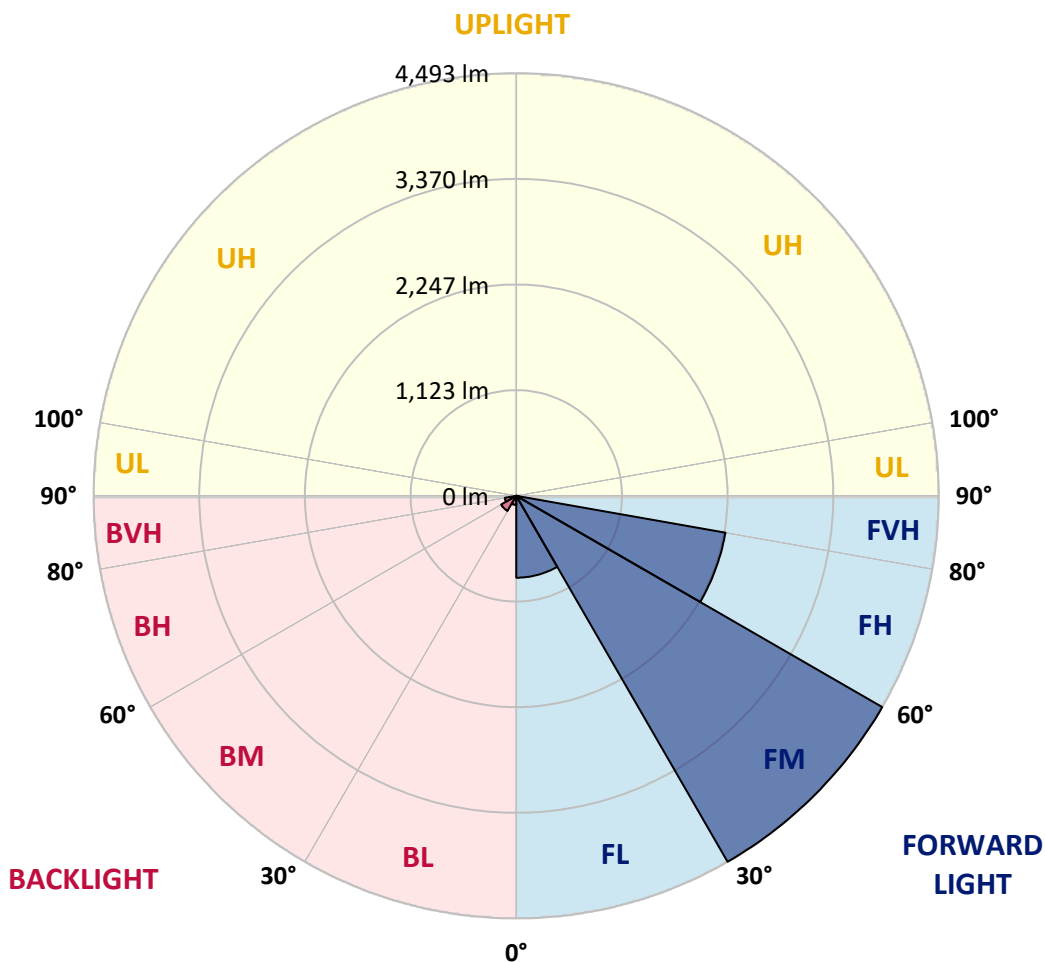
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	870.8	10.8			
FM (30°-60°)	4493.4	55.8			
FH (60°-80°)	2258.5	28.0			G2/5000
FVH (80°-90°)	26.2	0.3			G1/100
BL (0°-30°)	96.5	1.2	B0/110		
BM (30°-60°)	185.2	2.3	B0/220		
BH (60°-80°)	123.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	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°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1392.8	1397.6	1387.9	1366.2	1346.8	1300.9	1264.6	1199.3	1129.2	1129.2	1044.6
5°	1557.2	1552.3	1547.5	1530.6	1516.1	1477.4	1429.0	1358.9	1250.1	1240.4	1100.2
7.5°	1637.0	1632.1	1622.5	1615.2	1615.2	1588.6	1542.7	1470.1	1349.2	1339.6	1151.0
10°	1731.3	1721.6	1721.6	1702.3	1697.4	1666.0	1641.8	1578.9	1446.0	1433.9	1209.0
12.5°	1842.5	1832.8	1835.3	1818.3	1811.1	1777.2	1743.4	1682.9	1549.9	1537.8	1276.7
15°	1905.4	1900.5	1915.0	1917.5	1922.3	1893.3	1861.8	1799.0	1666.0	1649.1	1356.5
17.5°	1941.6	1941.6	1958.6	1990.0	2026.3	2009.3	1985.2	1934.4	1784.5	1774.8	1441.1
20°	2011.8	2004.5	2033.5	2062.5	2108.5	2123.0	2115.7	2077.1	1927.1	1898.1	1533.0
22.5°	2127.8	2118.2	2144.8	2181.0	2236.6	2241.5	2246.3	2227.0	2072.2	2043.2	1629.7
25°	2401.1	2376.9	2352.7	2347.9	2369.6	2389.0	2374.5	2389.0	2236.6	2210.0	1733.7
27.5°	2933.0	2891.9	2775.8	2647.7	2558.2	2575.2	2529.2	2555.8	2425.2	2391.4	1830.4
30°	3443.2	3402.1	3307.8	3080.5	2875.0	2783.1	2715.4	2705.7	2618.7	2580.0	1941.6
32.5°	3798.7	3772.1	3709.2	3556.9	3300.6	3066.0	2935.4	2889.5	2877.4	2817.0	2084.3
35°	4040.5	4016.3	3972.8	3849.4	3660.8	3399.7	3174.8	3073.3	3165.1	3092.6	2246.3
37.5°	4185.5	4168.6	4120.2	4035.6	3934.1	3762.4	3472.2	3310.2	3455.3	3387.6	2454.3
40°	4291.9	4248.4	4214.6	4149.3	4115.4	4059.8	3810.7	3556.9	3769.6	3699.5	2659.8
42.5°	4301.6	4282.3	4255.7	4217.0	4221.8	4258.1	4171.0	3842.2	4086.4	4021.1	2877.4
45°	4299.2	4279.8	4260.5	4221.8	4246.0	4381.4	4461.2	4142.0	4395.9	4328.2	3107.1
47.5°	4229.1	4214.6	4219.4	4219.4	4250.8	4434.6	4686.1	4446.7	4705.4	4640.1	3385.2
50°	3982.4	3996.9	4093.7	4144.4	4200.0	4437.0	4843.2	4765.9	5039.1	4993.1	3653.6
52.5°	3201.4	3283.6	3675.3	3943.7	4105.7	4388.6	4944.8	5102.0	5462.2	5392.1	3958.2
55°	2447.0	2451.8	2829.0	3452.9	3919.6	4301.6	5002.8	5329.2	5783.8	5745.1	4226.6
57.5°	1985.2	1982.7	2168.9	2729.9	3436.0	4163.8	5017.3	5496.1	6124.8	6052.2	4536.1
60°	1622.5	1612.8	1724.0	2069.8	2807.3	3839.8	4964.1	5631.5	6475.4	6448.8	4860.2
62.5°	1172.7	1182.4	1329.9	1598.3	2164.1	3242.5	4850.5	5672.6	6898.5	6871.9	5222.9
65°	674.6	703.6	865.6	1151.0	1658.7	2536.5	4526.5	5641.2	7312.0	7309.6	5559.0
67.5°	338.5	340.9	428.0	643.2	1114.7	1898.1	3810.7	5442.9	7655.3	7602.1	5752.4
70°	217.6	222.5	251.5	331.3	616.6	1315.4	2911.3	4881.9	7440.1	7420.8	5469.5
72.5°	166.8	171.7	195.9	217.6	321.6	747.2	1970.7	3793.8	6211.8	6158.6	4265.3
75°	130.6	133.0	157.2	176.5	215.2	350.6	989.0	2364.8	4001.8	3863.9	2427.7
77.5°	104.0	106.4	118.5	140.2	164.4	195.9	292.6	1063.9	1627.3	1453.2	788.3
80°	67.7	70.1	89.5	108.8	140.2	128.2	113.6	307.1	348.2	314.3	140.2
82.5°	38.7	41.1	60.4	87.0	106.4	72.5	65.3	89.5	82.2	79.8	43.5
85°	12.1	12.1	41.1	60.4	48.4	21.8	41.1	31.4	26.6	24.2	14.5
87.5°	2.4	2.4	19.3	21.8	7.3	2.4	4.8	7.3	9.7	12.1	7.3
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°	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0	1001.0
2.5°	1003.5	955.1	865.6	788.3	713.3	648.0	602.1	561.0	532.0	524.7	512.6
5°	1010.7	916.4	744.7	599.7	473.9	372.4	314.3	275.7	256.3	244.2	244.2
7.5°	1018.0	877.7	631.1	437.7	299.8	227.3	191.0	174.1	166.8	164.4	162.0
10°	1032.5	848.7	534.4	314.3	205.5	171.7	157.2	149.9	145.1	142.7	142.7
12.5°	1056.7	824.5	444.9	232.1	169.3	152.3	142.7	133.0	128.2	125.7	125.7
15°	1088.1	807.6	367.5	186.2	154.8	137.8	125.7	116.1	108.8	106.4	106.4
17.5°	1131.6	795.5	302.2	164.4	142.7	123.3	108.8	99.1	91.9	89.5	89.5
20°	1175.1	795.5	249.1	152.3	130.6	108.8	94.3	82.2	75.0	72.5	72.5
22.5°	1233.2	793.1	207.9	140.2	116.1	94.3	79.8	65.3	60.4	58.0	58.0
25°	1281.5	793.1	178.9	128.2	101.6	82.2	65.3	53.2	48.4	45.9	45.9
27.5°	1339.6	785.8	152.3	113.6	87.0	67.7	53.2	43.5	38.7	36.3	36.3
30°	1390.3	776.2	135.4	101.6	75.0	55.6	43.5	33.9	31.4	31.4	31.4
32.5°	1475.0	768.9	120.9	87.0	62.9	45.9	33.9	26.6	24.2	24.2	24.2
35°	1576.5	768.9	111.2	75.0	53.2	38.7	26.6	21.8	19.3	19.3	19.3
37.5°	1709.5	776.2	99.1	65.3	43.5	31.4	21.8	16.9	14.5	14.5	14.5
40°	1849.8	793.1	89.5	58.0	38.7	24.2	16.9	12.1	9.7	12.1	12.1
42.5°	2016.6	810.0	79.8	50.8	31.4	19.3	12.1	7.3	4.8	7.3	7.3
45°	2181.0	827.0	75.0	43.5	26.6	14.5	7.3	4.8	2.4	4.8	4.8
47.5°	2384.1	868.1	70.1	38.7	21.8	12.1	4.8	2.4	0.0	2.4	2.4
50°	2618.7	914.0	62.9	31.4	16.9	9.7	4.8	0.0	0.0	0.0	0.0
52.5°	2843.6	952.7	55.6	26.6	14.5	7.3	2.4	0.0	0.0	0.0	0.0
55°	3068.4	976.9	48.4	21.8	12.1	7.3	2.4	0.0	0.0	0.0	0.0
57.5°	3310.2	991.4	43.5	19.3	9.7	4.8	2.4	0.0	0.0	0.0	0.0
60°	3578.6	991.4	36.3	16.9	7.3	4.8	2.4	0.0	0.0	0.0	0.0
62.5°	3876.0	962.4	33.9	14.5	7.3	4.8	2.4	0.0	0.0	0.0	0.0
65°	4117.8	858.4	29.0	12.1	7.3	4.8	2.4	0.0	0.0	0.0	0.0
67.5°	4127.5	679.5	26.6	9.7	7.3	4.8	2.4	0.0	0.0	0.0	0.0
70°	3680.2	464.3	21.8	7.3	4.8	4.8	2.4	0.0	0.0	0.0	0.0
72.5°	2754.1	249.1	19.3	7.3	4.8	2.4	2.4	0.0	0.0	0.0	0.0
75°	1484.6	96.7	12.1	7.3	4.8	2.4	2.4	0.0	0.0	0.0	0.0
77.5°	432.8	48.4	7.3	4.8	4.8	2.4	2.4	0.0	0.0	0.0	0.0
80°	79.8	24.2	4.8	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	21.8	9.7	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.8	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	2.4	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)