

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: P594786

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
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
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9764 lumens
Efficiency: N/A
Efficacy: 118.5 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

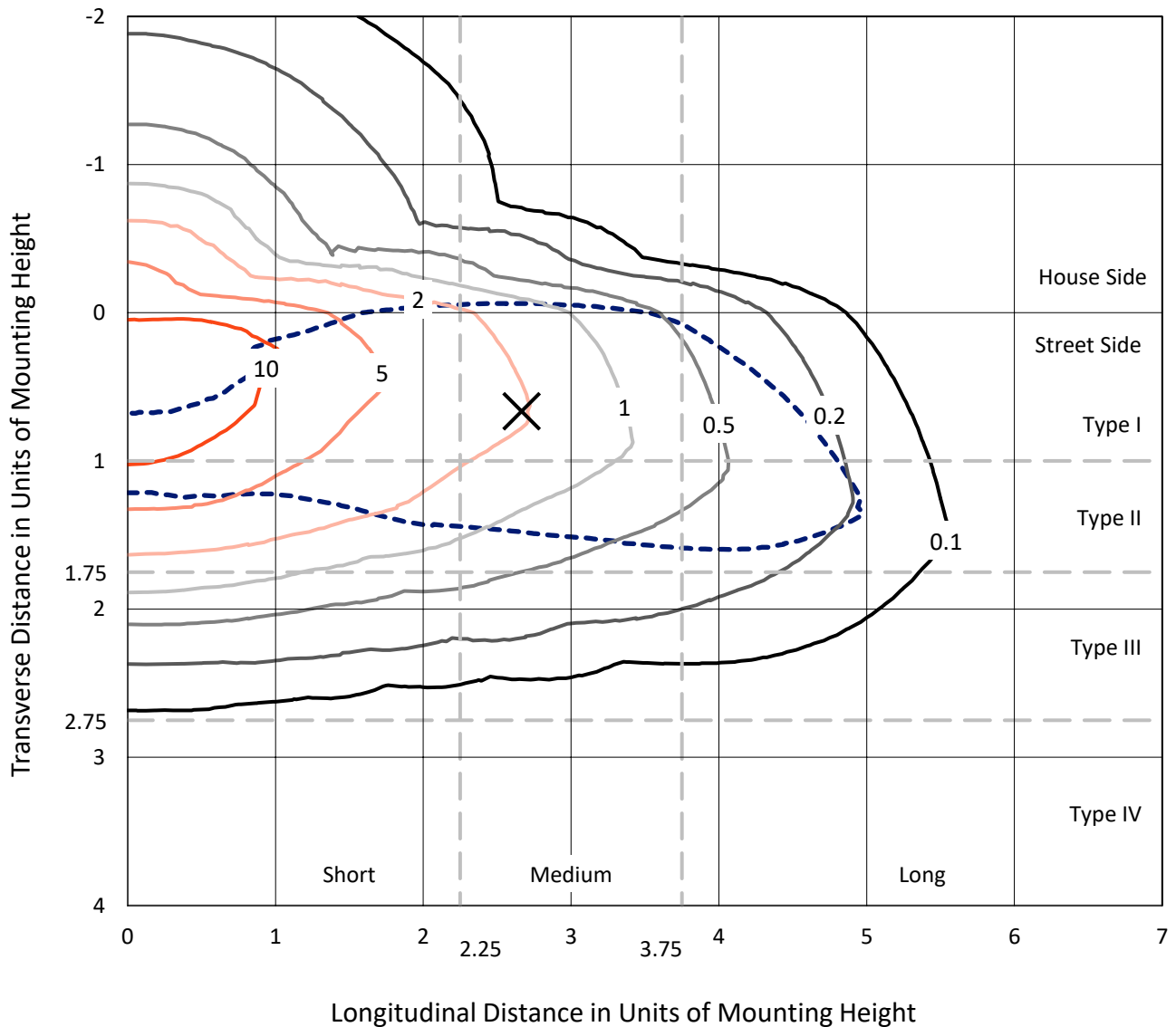
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

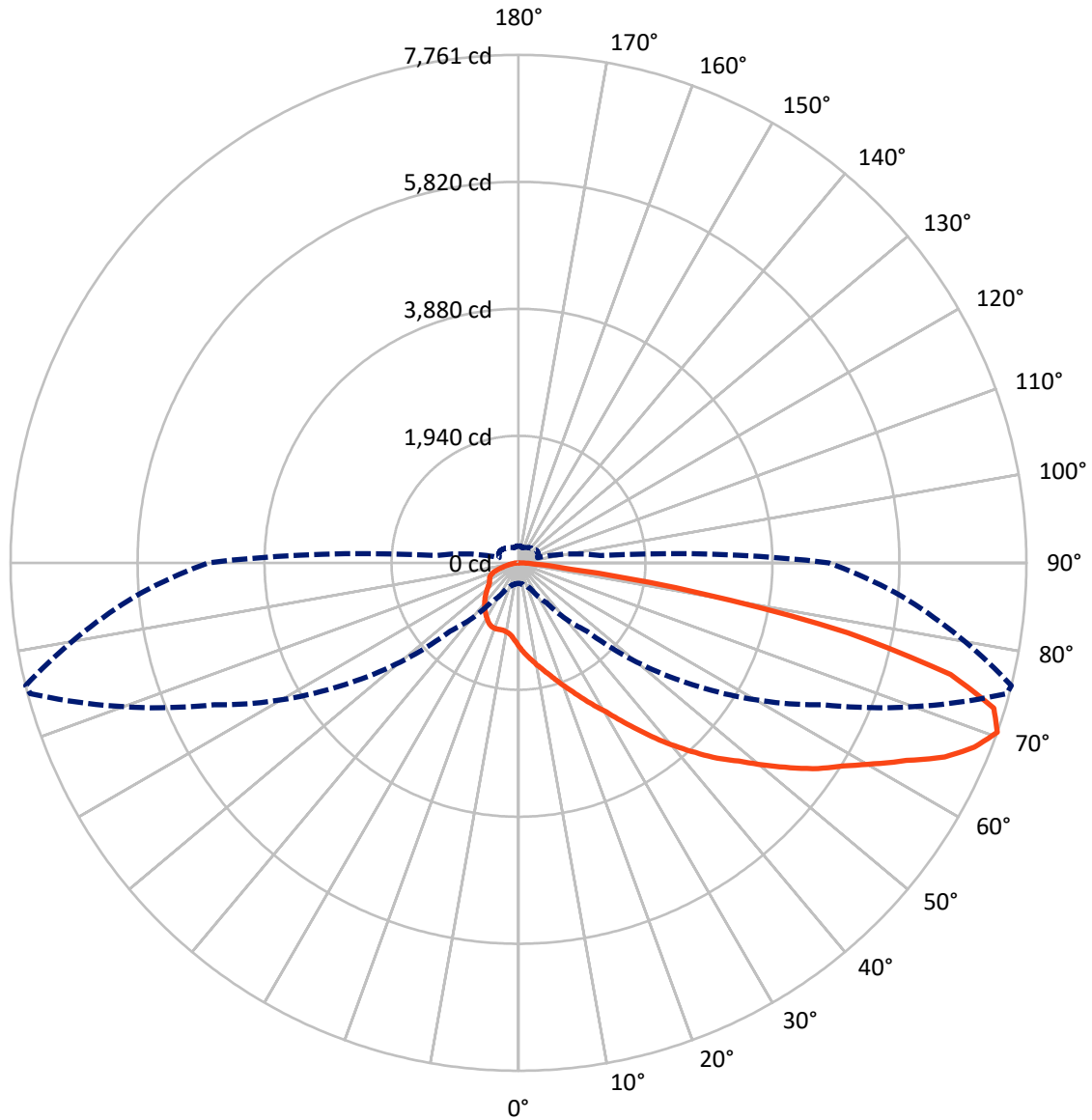
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1566.1	0.0	1566.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	8198.0	0.0	8198.0
	% Fixture	84.0	0.0	84.0
Total	Lumens	9764.0	0.0	9764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.3
10°-20°	412.0	4.2
20°-30°	759.2	7.8
30°-40°	1272.0	13.0
40°-50°	1807.4	18.5
50°-60°	2086.8	21.4
60°-70°	1918.3	19.6
70°-80°	1209.6	12.4
80°-90°	174.0	1.8
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°	9764.0	100.0
0°-180°	9764.0	100.0

Coefficient of Utilization

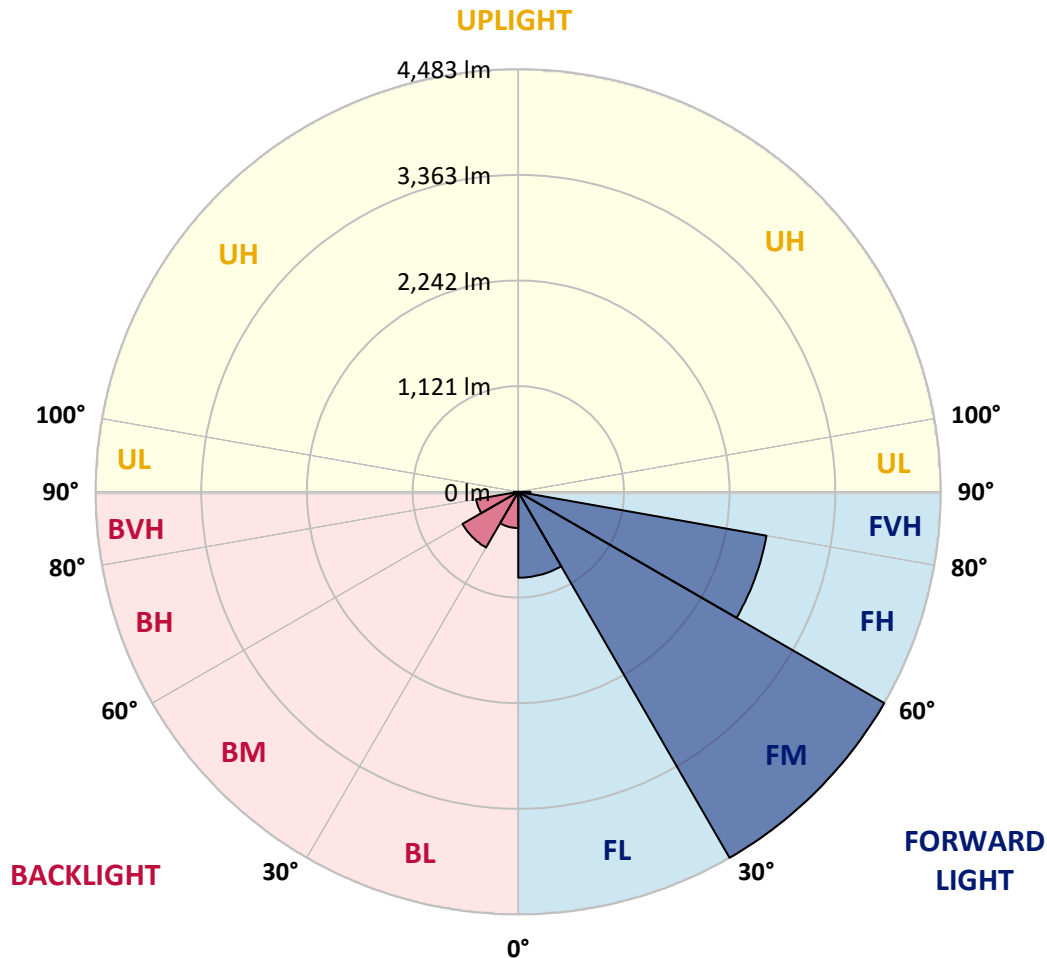


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.6	9.3			
FM (30°-60°)	4483.4	45.9			
FH (60°-80°)	2674.0	27.4			G2/5000
FVH (80°-90°)	129.0	1.3			G2/225
BL (0°-30°)	384.4	3.9	B1/500		
BM (30°-60°)	682.7	7.0	B1/1000		
BH (60°-80°)	453.9	4.6	B1/500		G1/500
BVH (80°-90°)	45.0	0.5			G1/100
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°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1541.8	1539.4	1532.4	1520.6	1511.2	1483.0	1445.4	1412.5	1363.2	1358.4	1309.1
5°	1680.4	1671.0	1671.0	1659.3	1647.5	1617.0	1570.0	1511.2	1440.7	1436.0	1342.0
7.5°	1746.2	1748.6	1743.9	1734.5	1736.8	1711.0	1668.7	1609.9	1513.6	1508.9	1386.7
10°	1840.3	1837.9	1828.5	1821.5	1819.1	1795.6	1758.0	1703.9	1602.9	1593.5	1438.4
12.5°	1931.9	1924.9	1927.2	1924.9	1920.2	1896.7	1861.4	1807.3	1682.8	1678.1	1501.8
15°	1983.6	1981.3	1997.7	2002.4	2021.2	2000.1	1969.5	1908.4	1795.6	1776.8	1577.0
17.5°	2016.5	2014.2	2030.6	2068.2	2103.5	2103.5	2094.1	2028.3	1903.7	1889.6	1661.6
20°	2072.9	2082.3	2110.5	2141.1	2192.8	2202.2	2199.8	2171.6	2028.3	2014.2	1755.6
22.5°	2185.7	2181.0	2204.5	2251.5	2298.6	2312.7	2315.0	2315.0	2171.6	2145.8	1852.0
25°	2427.8	2416.1	2397.3	2392.6	2449.0	2446.6	2439.6	2456.0	2322.1	2303.3	1962.5
27.5°	2888.5	2862.6	2789.8	2644.0	2611.1	2622.9	2587.6	2590.0	2493.6	2470.1	2056.5
30°	3325.6	3313.9	3245.7	3069.4	2883.8	2818.0	2756.9	2731.0	2684.0	2644.0	2157.5
32.5°	3720.5	3722.8	3640.6	3447.8	3257.5	3050.6	2944.9	2890.8	2909.6	2874.4	2296.2
35°	3988.4	3967.2	3915.5	3786.3	3579.4	3382.0	3179.9	3060.0	3161.1	3121.1	2434.9
37.5°	4145.9	4129.4	4087.1	3995.4	3892.0	3701.7	3445.5	3262.2	3459.6	3400.8	2611.1
40°	4225.8	4202.3	4160.0	4122.4	4073.0	3969.6	3744.0	3492.5	3732.2	3680.5	2785.1
42.5°	4235.2	4218.7	4195.2	4176.4	4192.9	4178.8	4035.4	3760.4	4018.9	3962.5	2984.8
45°	4228.1	4239.9	4211.7	4178.8	4211.7	4331.5	4331.5	4028.3	4303.3	4261.0	3175.2
47.5°	4232.8	4221.1	4211.7	4202.3	4207.0	4371.5	4536.0	4279.8	4576.0	4526.6	3398.5
50°	4037.7	4054.2	4134.1	4169.4	4190.5	4380.9	4700.5	4552.5	4914.4	4853.3	3647.6
52.5°	3417.3	3426.7	3791.0	4054.2	4138.8	4343.3	4815.7	4855.6	5248.1	5201.1	3915.5
55°	2632.3	2681.6	3027.1	3671.1	4021.3	4279.8	4850.9	5053.1	5588.9	5551.3	4185.8
57.5°	2166.9	2174.0	2373.8	2949.6	3650.0	4221.1	4886.2	5234.0	5894.4	5852.1	4467.8
60°	1797.9	1781.5	1903.7	2275.1	3031.8	3986.0	4893.2	5377.4	6249.3	6235.2	4759.3
62.5°	1320.8	1339.6	1457.2	1772.1	2371.4	3508.9	4858.0	5499.6	6672.4	6653.6	5083.6
65°	810.8	834.3	977.7	1266.8	1795.6	2785.1	4627.7	5563.1	7116.6	7158.9	5433.8
67.5°	430.1	446.5	531.2	766.2	1231.5	2122.3	4073.0	5483.2	7492.6	7511.4	5769.9
70°	314.9	317.3	345.5	432.4	742.7	1476.0	3243.4	5135.3	7723.0	7760.6	5880.3
72.5°	275.0	277.3	289.1	310.2	404.2	900.1	2324.4	4528.9	7626.6	7593.7	5694.7
75°	249.1	249.1	258.5	265.6	296.1	498.3	1424.3	3706.4	6891.0	6818.1	4855.6
77.5°	213.9	213.9	223.3	232.7	256.2	322.0	745.0	2747.5	5269.3	5144.7	3320.9
80°	171.6	171.6	183.3	195.1	225.6	242.1	364.3	1837.9	3013.0	2829.7	1511.2
82.5°	117.5	126.9	148.1	162.2	188.0	171.6	213.9	794.4	949.5	822.6	340.8
85°	70.5	75.2	105.8	122.2	141.0	91.7	131.6	305.5	284.4	249.1	77.6
87.5°	7.1	11.8	42.3	49.4	49.4	25.9	56.4	72.9	82.3	84.6	18.8
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°	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9	1280.9
2.5°	1280.9	1252.7	1198.6	1149.3	1099.9	1067.0	1034.1	1022.4	1005.9	994.2	1003.6
5°	1292.6	1233.9	1130.5	1043.5	984.8	940.1	919.0	907.2	897.8	895.4	893.1
7.5°	1306.7	1219.8	1081.1	984.8	928.4	907.2	902.5	902.5	902.5	904.8	907.2
10°	1337.3	1224.5	1055.3	951.9	921.3	916.6	919.0	928.4	928.4	930.7	930.7
12.5°	1372.6	1236.2	1036.5	947.2	928.4	930.7	933.1	937.8	937.8	944.8	942.5
15°	1424.3	1259.7	1034.1	951.9	935.4	930.7	930.7	928.4	928.4	928.4	933.1
17.5°	1490.1	1292.6	1036.5	951.9	928.4	919.0	911.9	904.8	895.4	900.1	895.4
20°	1555.9	1332.6	1036.5	940.1	909.6	886.0	864.9	853.1	841.4	839.0	841.4
22.5°	1638.1	1379.6	1024.7	914.3	869.6	836.7	806.1	789.7	770.9	763.8	759.1
25°	1708.6	1417.2	1001.2	876.6	824.9	777.9	738.0	709.8	686.3	681.6	681.6
27.5°	1781.5	1450.1	966.0	829.6	761.5	709.8	665.1	629.9	606.4	604.0	601.7
30°	1849.7	1478.3	919.0	777.9	705.1	644.0	592.3	561.7	540.6	528.8	521.8
32.5°	1939.0	1515.9	874.3	726.2	639.3	578.2	531.2	505.3	477.1	458.3	451.2
35°	2051.8	1560.6	824.9	669.8	580.5	519.4	491.2	453.6	418.3	397.2	390.1
37.5°	2178.7	1624.0	773.2	611.1	521.8	477.1	460.7	401.9	364.3	357.2	354.9
40°	2336.2	1685.1	714.5	550.0	465.4	453.6	425.4	364.3	345.5	343.1	340.8
42.5°	2493.6	1750.9	658.1	488.9	420.7	425.4	385.4	354.9	338.4	333.7	331.4
45°	2676.9	1816.8	601.7	434.8	385.4	385.4	364.3	345.5	331.4	326.7	326.7
47.5°	2869.7	1882.6	540.6	387.8	359.6	345.5	347.8	333.7	324.3	319.6	317.3
50°	3111.7	1946.0	484.2	354.9	343.1	324.3	331.4	322.0	317.3	312.6	310.2
52.5°	3339.7	1974.2	432.4	336.1	333.7	314.9	317.3	312.6	310.2	303.2	300.8
55°	3563.0	1967.2	392.5	326.7	322.0	312.6	307.9	305.5	303.2	296.1	293.8
57.5°	3812.1	1957.8	366.6	324.3	314.9	305.5	305.5	298.5	289.1	289.1	289.1
60°	4070.6	1927.2	354.9	324.3	312.6	305.5	300.8	293.8	284.4	286.7	284.4
62.5°	4362.1	1868.5	347.8	331.4	314.9	303.2	298.5	289.1	277.3	279.7	277.3
65°	4618.3	1748.6	343.1	338.4	319.6	305.5	293.8	282.0	267.9	270.3	267.9
67.5°	4792.2	1546.5	329.0	343.1	326.7	303.2	289.1	272.6	253.8	263.2	260.9
70°	4742.8	1257.4	303.2	333.7	333.7	305.5	282.0	260.9	239.7	258.5	251.5
72.5°	4359.7	944.8	253.8	300.8	329.0	305.5	267.9	242.1	223.3	235.0	220.9
75°	3579.4	641.6	202.1	239.7	307.9	307.9	256.2	223.3	199.8	192.7	188.0
77.5°	2232.7	399.5	157.5	176.3	258.5	305.5	244.4	199.8	166.9	162.2	157.5
80°	883.7	213.9	124.6	126.9	190.4	279.7	228.0	169.2	134.0	129.3	119.9
82.5°	202.1	108.1	87.0	84.6	117.5	228.0	206.8	134.0	103.4	103.4	87.0
85°	61.1	56.4	56.4	54.1	58.8	117.5	159.8	91.7	70.5	49.4	42.3
87.5°	16.5	23.5	21.2	18.8	18.8	16.5	51.7	23.5	14.1	7.1	4.7
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)