

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: P594705

Luminaire Tested: **ISS-PA1D-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594705
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-PA1D-730-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7953 lumens
Efficiency: N/A
Efficacy: 126.2 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

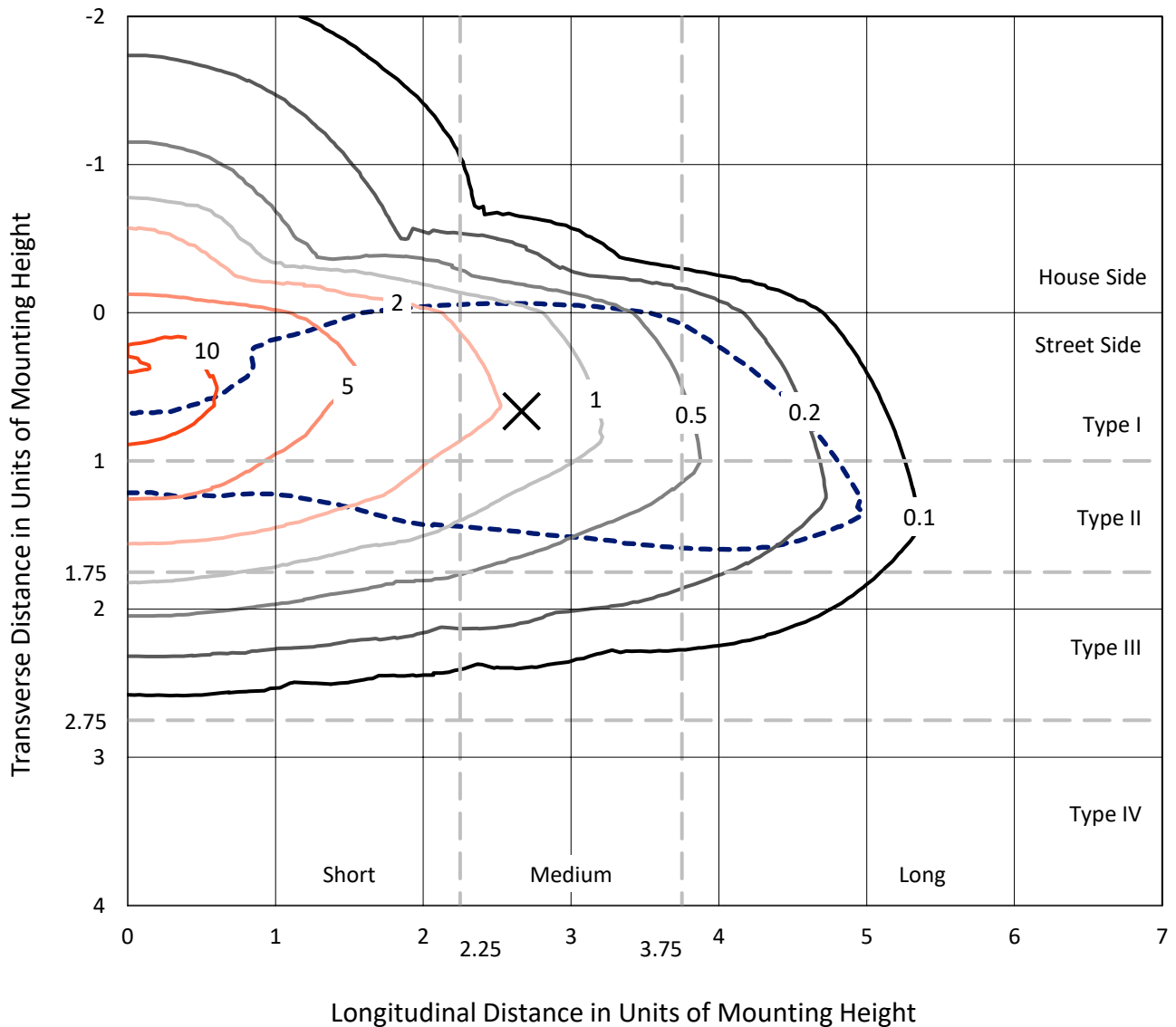
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

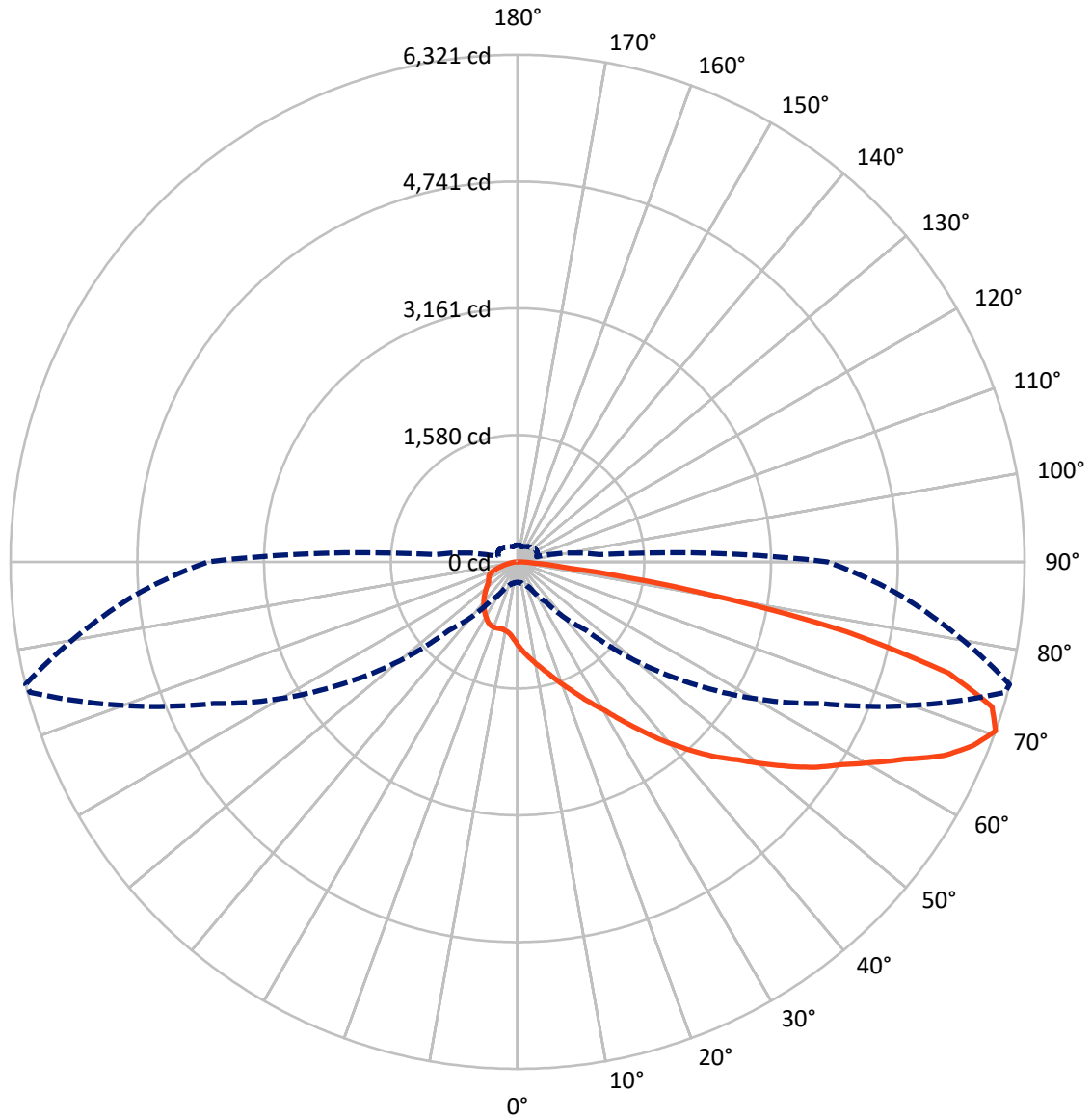
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 12.6 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	1275.6	0.0	1275.6
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	6677.4	0.0	6677.4
	% Fixture	84.0	0.0	84.0
Total	Lumens	7953.0	0.0	7953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	1.3
10°-20°	335.5	4.2
20°-30°	618.4	7.8
30°-40°	1036.1	13.0
40°-50°	1472.2	18.5
50°-60°	1699.7	21.4
60°-70°	1562.5	19.6
70°-80°	985.2	12.4
80°-90°	141.7	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°	7953.0	100.0
0°-180°	7953.0	100.0

Coefficient of Utilization

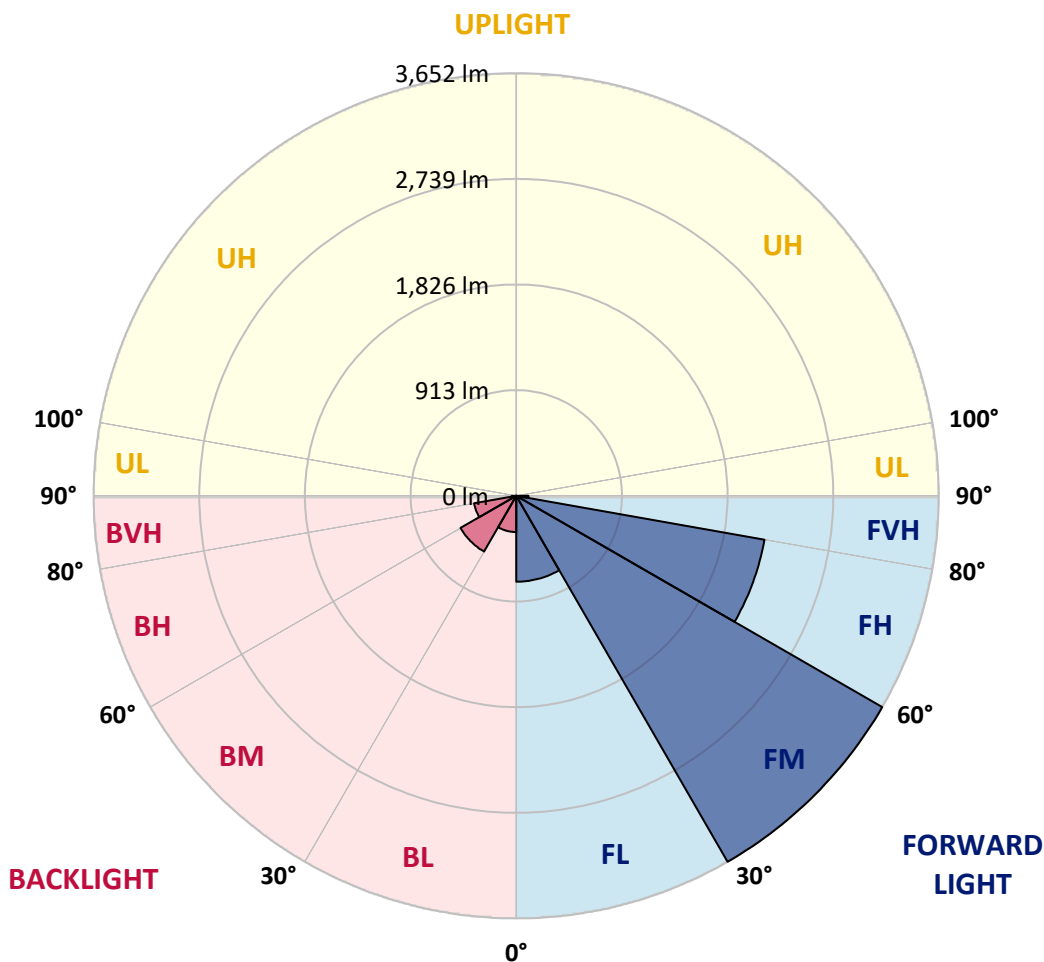


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.5	9.3			
FM (30°-60°)	3651.8	45.9			
FH (60°-80°)	2178.0	27.4			G2/5000
FVH (80°-90°)	105.0	1.3			G2/225
BL (0°-30°)	313.1	3.9	B1/500		
BM (30°-60°)	556.1	7.0	B1/1000		
BH (60°-80°)	369.7	4.6	B1/500		G1/500
BVH (80°-90°)	36.7	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°	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3
2.5°	1255.8	1253.9	1248.1	1238.6	1230.9	1207.9	1177.3	1150.5	1110.3	1106.5	1066.3
5°	1368.8	1361.1	1361.1	1351.5	1342.0	1317.1	1278.8	1230.9	1173.5	1169.7	1093.1
7.5°	1422.4	1424.3	1420.4	1412.8	1414.7	1393.6	1359.2	1311.3	1232.8	1229.0	1129.5
10°	1498.9	1497.0	1489.4	1483.6	1481.7	1462.6	1431.9	1387.9	1305.6	1297.9	1171.6
12.5°	1573.6	1567.8	1569.8	1567.8	1564.0	1544.9	1516.2	1472.1	1370.7	1366.8	1223.3
15°	1615.7	1613.8	1627.2	1631.0	1646.3	1629.1	1604.2	1554.4	1462.6	1447.2	1284.5
17.5°	1642.5	1640.6	1654.0	1684.6	1713.3	1713.3	1705.7	1652.1	1550.6	1539.1	1353.4
20°	1688.4	1696.1	1719.1	1744.0	1786.1	1793.7	1791.8	1768.8	1652.1	1640.6	1430.0
22.5°	1780.3	1776.5	1795.7	1833.9	1872.2	1883.7	1885.6	1885.6	1768.8	1747.8	1508.5
25°	1977.5	1967.9	1952.6	1948.8	1994.7	1992.8	1987.1	2000.5	1891.4	1876.1	1598.5
27.5°	2352.7	2331.7	2272.3	2153.6	2126.8	2136.4	2107.7	2109.6	2031.1	2012.0	1675.0
30°	2708.8	2699.2	2643.7	2500.1	2348.9	2295.3	2245.5	2224.5	2186.2	2153.6	1757.4
32.5°	3030.4	3032.3	2965.3	2808.3	2653.3	2484.8	2398.7	2354.6	2370.0	2341.2	1870.3
35°	3248.6	3231.4	3189.3	3084.0	2915.5	2754.7	2590.1	2492.5	2574.8	2542.2	1983.3
37.5°	3376.9	3363.5	3329.0	3254.4	3170.1	3015.1	2806.4	2657.1	2817.9	2770.0	2126.8
40°	3442.0	3422.8	3388.4	3357.8	3317.6	3233.3	3049.5	2844.7	3040.0	2997.9	2268.5
42.5°	3449.6	3436.2	3417.1	3401.8	3415.2	3403.7	3286.9	3062.9	3273.5	3227.6	2431.2
45°	3443.9	3453.5	3430.5	3403.7	3430.5	3528.1	3528.1	3281.2	3505.2	3470.7	2586.3
47.5°	3447.7	3438.2	3430.5	3422.8	3426.7	3560.7	3694.7	3486.0	3727.2	3687.0	2768.1
50°	3288.8	3302.2	3367.3	3396.0	3413.3	3568.3	3828.7	3708.1	4002.9	3953.1	2971.1
52.5°	2783.4	2791.1	3087.8	3302.2	3371.2	3537.7	3922.5	3955.0	4274.7	4236.4	3189.3
55°	2144.1	2184.3	2465.7	2990.2	3275.4	3486.0	3951.2	4115.8	4552.3	4521.7	3409.4
57.5°	1765.0	1770.8	1933.5	2402.5	2973.0	3438.2	3979.9	4263.2	4801.2	4766.7	3639.2
60°	1464.5	1451.1	1550.6	1853.1	2469.5	3246.7	3985.7	4380.0	5090.2	5078.7	3876.5
62.5°	1075.9	1091.2	1186.9	1443.4	1931.6	2858.1	3956.9	4479.6	5434.8	5419.5	4140.7
65°	660.4	679.6	796.4	1031.8	1462.6	2268.5	3769.3	4531.2	5796.6	5831.1	4426.0
67.5°	350.3	363.7	432.6	624.1	1003.1	1728.6	3317.6	4466.2	6102.9	6118.2	4699.7
70°	256.5	258.4	281.4	352.2	604.9	1202.2	2641.8	4182.8	6290.5	6321.1	4789.7
72.5°	224.0	225.9	235.5	252.7	329.3	733.2	1893.3	3688.9	6212.0	6185.2	4638.4
75°	202.9	202.9	210.6	216.3	241.2	405.8	1160.1	3018.9	5612.8	5553.5	3955.0
77.5°	174.2	174.2	181.9	189.5	208.7	262.3	606.8	2237.9	4291.9	4190.5	2705.0
80°	139.7	139.7	149.3	158.9	183.8	197.2	296.7	1497.0	2454.2	2304.9	1230.9
82.5°	95.7	103.4	120.6	132.1	153.1	139.7	174.2	647.0	773.4	670.0	277.6
85°	57.4	61.3	86.1	99.5	114.9	74.7	107.2	248.9	231.6	202.9	63.2
87.5°	5.7	9.6	34.5	40.2	40.2	21.1	45.9	59.3	67.0	68.9	15.3
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°	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3	1043.3
2.5°	1043.3	1020.3	976.3	936.1	895.9	869.1	842.3	832.7	819.3	809.8	817.4
5°	1052.9	1005.0	920.8	850.0	802.1	765.7	748.5	738.9	731.3	729.4	727.4
7.5°	1064.4	993.5	880.6	802.1	756.2	738.9	735.1	735.1	735.1	737.0	738.9
10°	1089.3	997.4	859.5	775.3	750.4	746.6	748.5	756.2	756.2	758.1	758.1
12.5°	1118.0	1006.9	844.2	771.5	756.2	758.1	760.0	763.8	763.8	769.6	767.7
15°	1160.1	1026.1	842.3	775.3	761.9	758.1	758.1	756.2	756.2	756.2	760.0
17.5°	1213.7	1052.9	844.2	775.3	756.2	748.5	742.8	737.0	729.4	733.2	729.4
20°	1267.3	1085.4	844.2	765.7	740.8	721.7	704.5	694.9	685.3	683.4	685.3
22.5°	1334.3	1123.7	834.7	744.7	708.3	681.5	656.6	643.2	627.9	622.2	618.3
25°	1391.7	1154.3	815.5	714.0	671.9	633.6	601.1	578.1	559.0	555.2	555.2
27.5°	1451.1	1181.1	786.8	675.8	620.2	578.1	541.8	513.0	493.9	492.0	490.1
30°	1506.6	1204.1	748.5	633.6	574.3	524.5	482.4	457.5	440.3	430.7	425.0
32.5°	1579.3	1234.7	712.1	591.5	520.7	470.9	432.6	411.6	388.6	373.3	367.6
35°	1671.2	1271.1	671.9	545.6	472.8	423.1	400.1	369.5	340.8	323.5	317.8
37.5°	1774.6	1322.8	629.8	497.7	425.0	388.6	375.2	327.4	296.7	291.0	289.1
40°	1902.9	1372.6	582.0	448.0	379.0	369.5	346.5	296.7	281.4	279.5	277.6
42.5°	2031.1	1426.2	536.0	398.2	342.7	346.5	314.0	289.1	275.7	271.8	269.9
45°	2180.4	1479.8	490.1	354.2	314.0	314.0	296.7	281.4	269.9	266.1	266.1
47.5°	2337.4	1533.4	440.3	315.9	292.9	281.4	283.3	271.8	264.2	260.4	258.4
50°	2534.6	1585.1	394.4	289.1	279.5	264.2	269.9	262.3	258.4	254.6	252.7
52.5°	2720.3	1608.0	352.2	273.8	271.8	256.5	258.4	254.6	252.7	246.9	245.0
55°	2902.1	1602.3	319.7	266.1	262.3	254.6	250.8	248.9	246.9	241.2	239.3
57.5°	3105.1	1594.6	298.6	264.2	256.5	248.9	248.9	243.1	235.5	235.5	235.5
60°	3315.6	1569.8	289.1	264.2	254.6	248.9	245.0	239.3	231.6	233.5	231.6
62.5°	3553.0	1521.9	283.3	269.9	256.5	246.9	243.1	235.5	225.9	227.8	225.9
65°	3761.7	1424.3	279.5	275.7	260.4	248.9	239.3	229.7	218.2	220.1	218.2
67.5°	3903.3	1259.6	268.0	279.5	266.1	246.9	235.5	222.1	206.7	214.4	212.5
70°	3863.1	1024.2	246.9	271.8	271.8	248.9	229.7	212.5	195.3	210.6	204.8
72.5°	3551.1	769.6	206.7	245.0	268.0	248.9	218.2	197.2	181.9	191.4	179.9
75°	2915.5	522.6	164.6	195.3	250.8	250.8	208.7	181.9	162.7	157.0	153.1
77.5°	1818.6	325.4	128.3	143.6	210.6	248.9	199.1	162.7	135.9	132.1	128.3
80°	719.8	174.2	101.5	103.4	155.1	227.8	185.7	137.8	109.1	105.3	97.6
82.5°	164.6	88.1	70.8	68.9	95.7	185.7	168.5	109.1	84.2	84.2	70.8
85°	49.8	45.9	45.9	44.0	47.9	95.7	130.2	74.7	57.4	40.2	34.5
87.5°	13.4	19.1	17.2	15.3	15.3	13.4	42.1	19.1	11.5	5.7	3.8
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)