

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: P594750

Luminaire Tested: **ISS-PA1D-827-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594750
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-827-U-T2R
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 2700K, 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: 6420 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

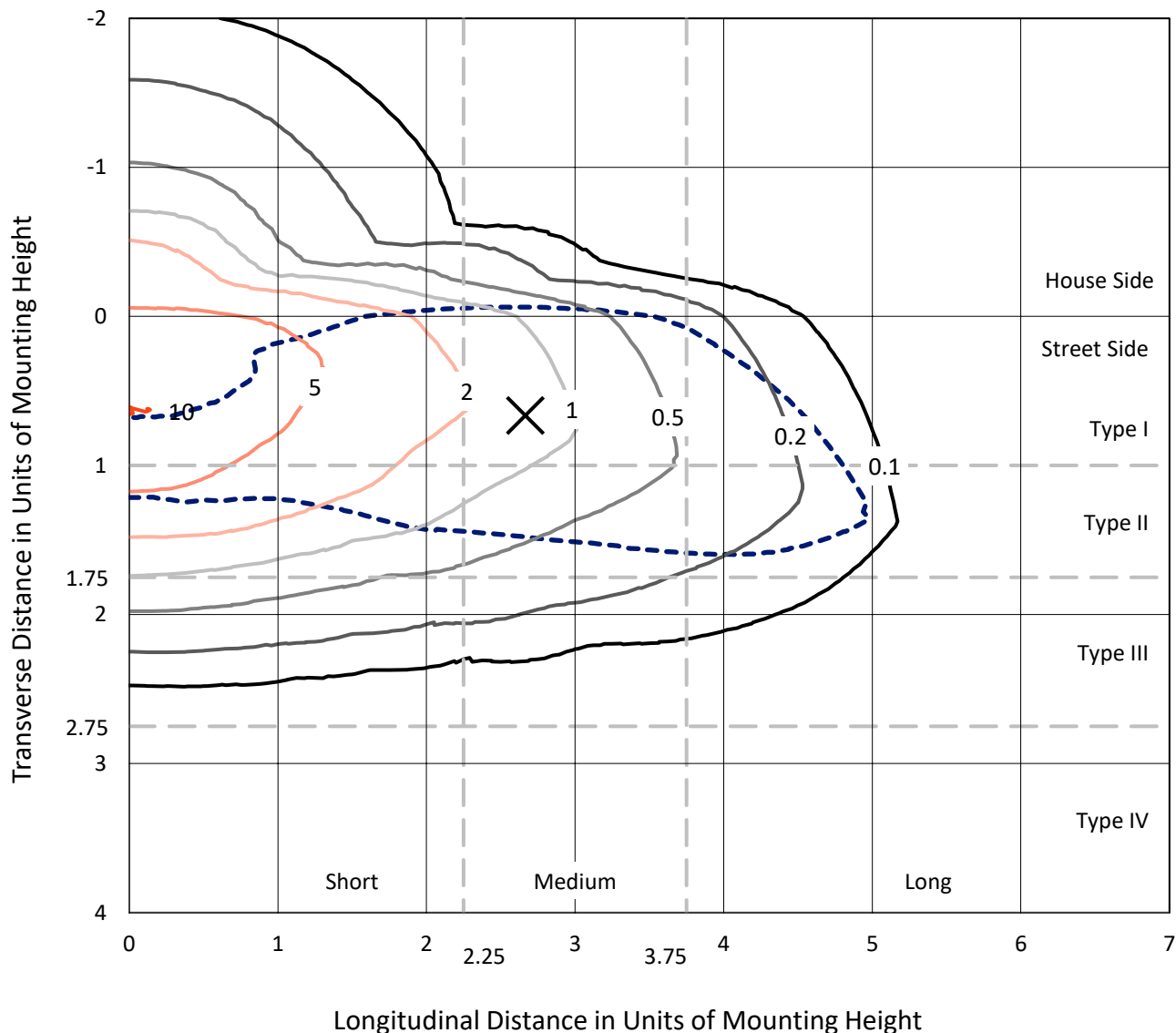
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

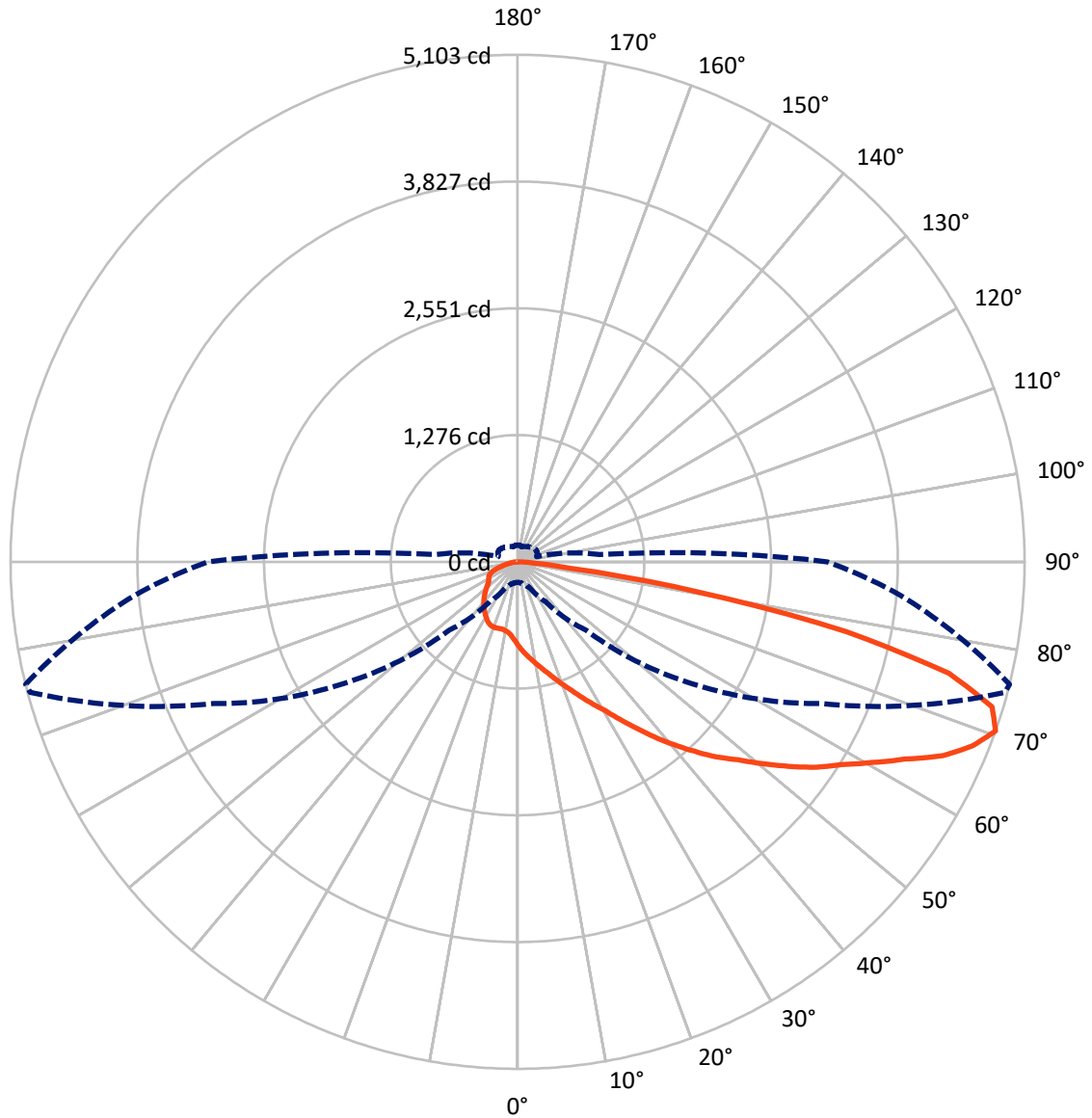
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.1 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	1029.7	0.0	1029.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5390.3	0.0	5390.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	6420.0	0.0	6420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	1.3
10°-20°	270.9	4.2
20°-30°	499.2	7.8
30°-40°	836.3	13.0
40°-50°	1188.4	18.5
50°-60°	1372.1	21.4
60°-70°	1261.3	19.6
70°-80°	795.3	12.4
80°-90°	114.4	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°	6420.0	100.0
0°-180°	6420.0	100.0

Coefficient of Utilization



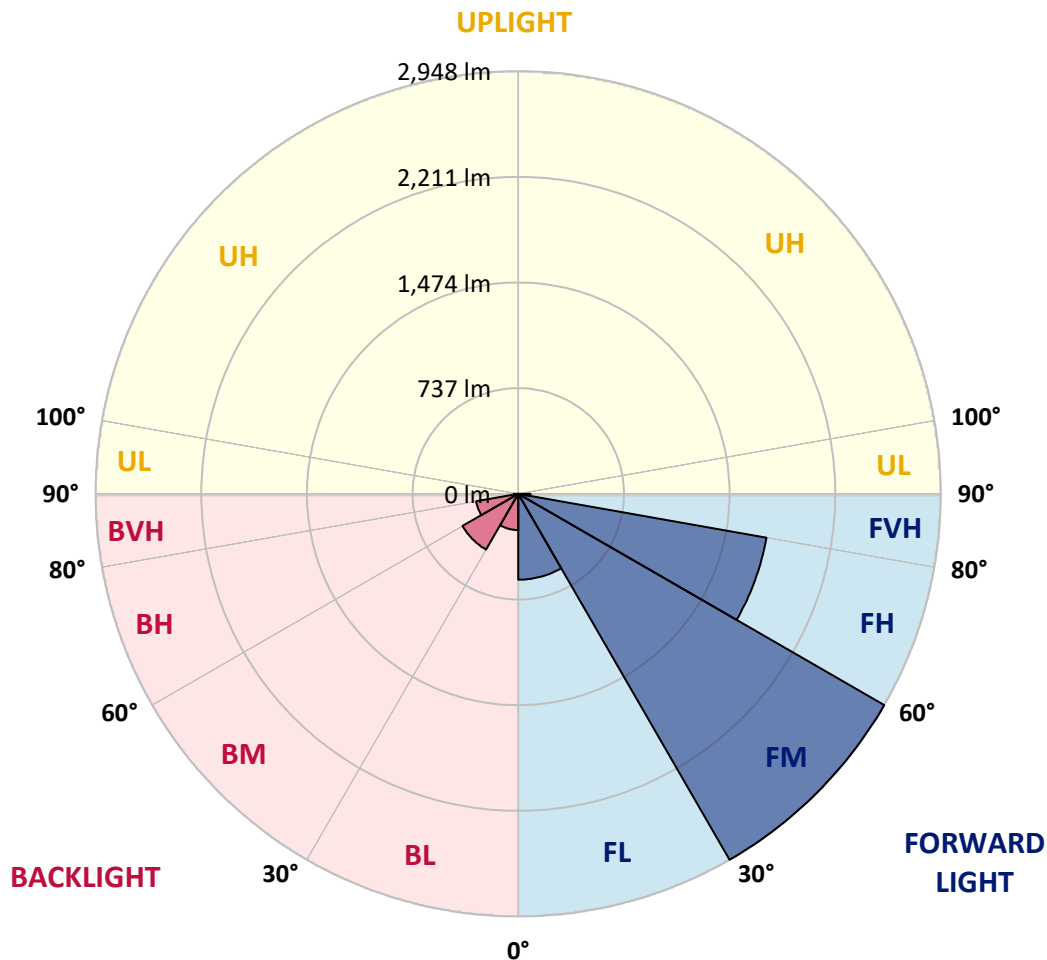
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.4	9.3			
FM (30°-60°)	2947.9	45.9			
FH (60°-80°)	1758.2	27.4			G1/1800
FVH (80°-90°)	84.8	1.3			G1/100
BL (0°-30°)	252.8	3.9	B1/500		
BM (30°-60°)	448.9	7.0	B1/1000		
BH (60°-80°)	298.4	4.6	B1/500		G1/500
BVH (80°-90°)	29.6	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-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	1013.7	1012.2	1007.6	999.8	993.7	975.1	950.4	928.7	896.3	893.2	860.8
5°	1104.9	1098.7	1098.7	1091.0	1083.3	1063.2	1032.3	993.7	947.3	944.2	882.4
7.5°	1148.2	1149.7	1146.6	1140.5	1142.0	1125.0	1097.2	1058.6	995.2	992.1	911.7
10°	1210.0	1208.5	1202.3	1197.6	1196.1	1180.6	1155.9	1120.4	1053.9	1047.7	945.7
12.5°	1270.3	1265.6	1267.2	1265.6	1262.5	1247.1	1223.9	1188.4	1106.5	1103.4	987.5
15°	1304.3	1302.7	1313.5	1316.6	1329.0	1315.1	1295.0	1254.8	1180.6	1168.3	1036.9
17.5°	1325.9	1324.4	1335.2	1359.9	1383.1	1383.1	1376.9	1333.6	1251.7	1242.5	1092.6
20°	1363.0	1369.2	1387.7	1407.8	1441.8	1448.0	1446.4	1427.9	1333.6	1324.4	1154.4
22.5°	1437.2	1434.1	1449.5	1480.4	1511.3	1520.6	1522.2	1522.2	1427.9	1410.9	1217.7
25°	1596.3	1588.6	1576.2	1573.2	1610.2	1608.7	1604.1	1614.9	1526.8	1514.4	1290.4
27.5°	1899.2	1882.2	1834.3	1738.5	1716.9	1724.6	1701.4	1703.0	1639.6	1624.1	1352.2
30°	2186.7	2178.9	2134.1	2018.2	1896.1	1852.9	1812.7	1795.7	1764.8	1738.5	1418.6
32.5°	2446.3	2447.8	2393.7	2267.0	2141.8	2005.8	1936.3	1900.8	1913.1	1889.9	1509.8
35°	2622.4	2608.5	2574.5	2489.5	2353.5	2223.7	2090.8	2012.0	2078.5	2052.2	1601.0
37.5°	2726.0	2715.2	2687.3	2627.1	2559.1	2433.9	2265.5	2144.9	2274.7	2236.1	1716.9
40°	2778.5	2763.1	2735.2	2710.5	2678.1	2610.1	2461.7	2296.4	2454.0	2420.0	1831.2
42.5°	2784.7	2773.9	2758.4	2746.1	2756.9	2747.6	2653.3	2472.5	2642.5	2605.4	1962.6
45°	2780.1	2787.8	2769.2	2747.6	2769.2	2848.1	2848.1	2648.7	2829.5	2801.7	2087.7
47.5°	2783.2	2775.4	2769.2	2763.1	2766.2	2874.3	2982.5	2814.1	3008.8	2976.3	2234.6
50°	2654.9	2665.7	2718.2	2741.4	2755.3	2880.5	3090.7	2993.3	3231.3	3191.1	2398.4
52.5°	2246.9	2253.1	2492.6	2665.7	2721.3	2855.8	3166.4	3192.7	3450.7	3419.8	2574.5
55°	1730.8	1763.2	1990.4	2413.8	2644.1	2814.1	3189.6	3322.5	3674.8	3650.1	2752.2
57.5°	1424.8	1429.4	1560.8	1939.4	2399.9	2775.4	3212.8	3441.5	3875.7	3847.9	2937.7
60°	1182.2	1171.4	1251.7	1495.9	1993.5	2620.9	3217.4	3535.7	4109.0	4099.8	3129.3
62.5°	868.5	880.8	958.1	1165.2	1559.2	2307.2	3194.2	3616.1	4387.2	4374.8	3342.6
65°	533.1	548.6	642.9	832.9	1180.6	1831.2	3042.8	3657.8	4679.3	4707.1	3572.8
67.5°	282.8	293.6	349.2	503.8	809.8	1395.4	2678.1	3605.3	4926.5	4938.9	3793.8
70°	207.1	208.6	227.2	284.3	488.3	970.5	2132.6	3376.6	5078.0	5102.7	3866.4
72.5°	180.8	182.3	190.1	204.0	265.8	591.9	1528.3	2977.9	5014.6	4993.0	3744.3
75°	163.8	163.8	170.0	174.6	194.7	327.6	936.5	2437.0	4530.9	4483.0	3192.7
77.5°	140.6	140.6	146.8	153.0	168.4	211.7	489.9	1806.5	3464.6	3382.7	2183.6
80°	112.8	112.8	120.5	128.3	148.4	159.2	239.5	1208.5	1981.1	1860.6	993.7
82.5°	77.3	83.4	97.4	106.6	123.6	112.8	140.6	522.3	624.3	540.9	224.1
85°	46.4	49.5	69.5	80.4	92.7	60.3	86.5	200.9	187.0	163.8	51.0
87.5°	4.6	7.7	27.8	32.5	32.5	17.0	37.1	47.9	54.1	55.6	12.4
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°	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2	842.2
2.5°	842.2	823.7	788.1	755.7	723.2	701.6	679.9	672.2	661.4	653.7	659.9
5°	849.9	811.3	743.3	686.1	647.5	618.1	604.2	596.5	590.3	588.8	587.2
7.5°	859.2	802.0	710.9	647.5	610.4	596.5	593.4	593.4	593.4	595.0	596.5
10°	879.3	805.1	693.9	625.9	605.8	602.7	604.2	610.4	610.4	612.0	612.0
12.5°	902.5	812.8	681.5	622.8	610.4	612.0	613.5	616.6	616.6	621.2	619.7
15°	936.5	828.3	679.9	625.9	615.0	612.0	612.0	610.4	610.4	610.4	613.5
17.5°	979.7	849.9	681.5	625.9	610.4	604.2	599.6	595.0	588.8	591.9	588.8
20°	1023.0	876.2	681.5	618.1	598.0	582.6	568.7	561.0	553.2	551.7	553.2
22.5°	1077.1	907.1	673.8	601.1	571.8	550.1	530.1	519.2	506.9	502.2	499.1
25°	1123.5	931.8	658.3	576.4	542.4	511.5	485.2	466.7	451.2	448.1	448.1
27.5°	1171.4	953.5	635.1	545.5	500.7	466.7	437.3	414.2	398.7	397.2	395.6
30°	1216.2	972.0	604.2	511.5	463.6	423.4	389.4	369.3	355.4	347.7	343.1
32.5°	1274.9	996.7	574.9	477.5	420.3	380.2	349.2	332.2	313.7	301.3	296.7
35°	1349.1	1026.1	542.4	440.4	381.7	341.5	323.0	298.2	275.1	261.2	256.5
37.5°	1432.5	1067.8	508.4	401.8	343.1	313.7	302.9	264.3	239.5	234.9	233.3
40°	1536.1	1108.0	469.8	361.6	306.0	298.2	279.7	239.5	227.2	225.6	224.1
42.5°	1639.6	1151.3	432.7	321.4	276.6	279.7	253.4	233.3	222.5	219.4	217.9
45°	1760.1	1194.5	395.6	285.9	253.4	253.4	239.5	227.2	217.9	214.8	214.8
47.5°	1886.9	1237.8	355.4	255.0	236.4	227.2	228.7	219.4	213.3	210.2	208.6
50°	2046.0	1279.5	318.3	233.3	225.6	213.3	217.9	211.7	208.6	205.5	204.0
52.5°	2195.9	1298.1	284.3	221.0	219.4	207.1	208.6	205.5	204.0	199.3	197.8
55°	2342.7	1293.4	258.1	214.8	211.7	205.5	202.4	200.9	199.3	194.7	193.2
57.5°	2506.5	1287.3	241.1	213.3	207.1	200.9	200.9	196.3	190.1	190.1	190.1
60°	2676.5	1267.2	233.3	213.3	205.5	200.9	197.8	193.2	187.0	188.5	187.0
62.5°	2868.1	1228.5	228.7	217.9	207.1	199.3	196.3	190.1	182.3	183.9	182.3
65°	3036.6	1149.7	225.6	222.5	210.2	200.9	193.2	185.4	176.2	177.7	176.2
67.5°	3150.9	1016.8	216.3	225.6	214.8	199.3	190.1	179.3	166.9	173.1	171.5
70°	3118.5	826.8	199.3	219.4	219.4	200.9	185.4	171.5	157.6	170.0	165.4
72.5°	2866.6	621.2	166.9	197.8	216.3	200.9	176.2	159.2	146.8	154.5	145.3
75°	2353.5	421.9	132.9	157.6	202.4	202.4	168.4	146.8	131.4	126.7	123.6
77.5°	1468.1	262.7	103.5	115.9	170.0	200.9	160.7	131.4	109.7	106.6	103.5
80°	581.0	140.6	81.9	83.4	125.2	183.9	149.9	111.3	88.1	85.0	78.8
82.5°	132.9	71.1	57.2	55.6	77.3	149.9	136.0	88.1	68.0	68.0	57.2
85°	40.2	37.1	37.1	35.5	38.6	77.3	105.1	60.3	46.4	32.5	27.8
87.5°	10.8	15.5	13.9	12.4	12.4	10.8	34.0	15.5	9.3	4.6	3.1
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)