

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: P227854

Luminaire Tested: **ISS-AF-1000-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-1000-LED-E1-T4FT-7030
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5063 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.6
Input Voltage (V): 120
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: 25 FT

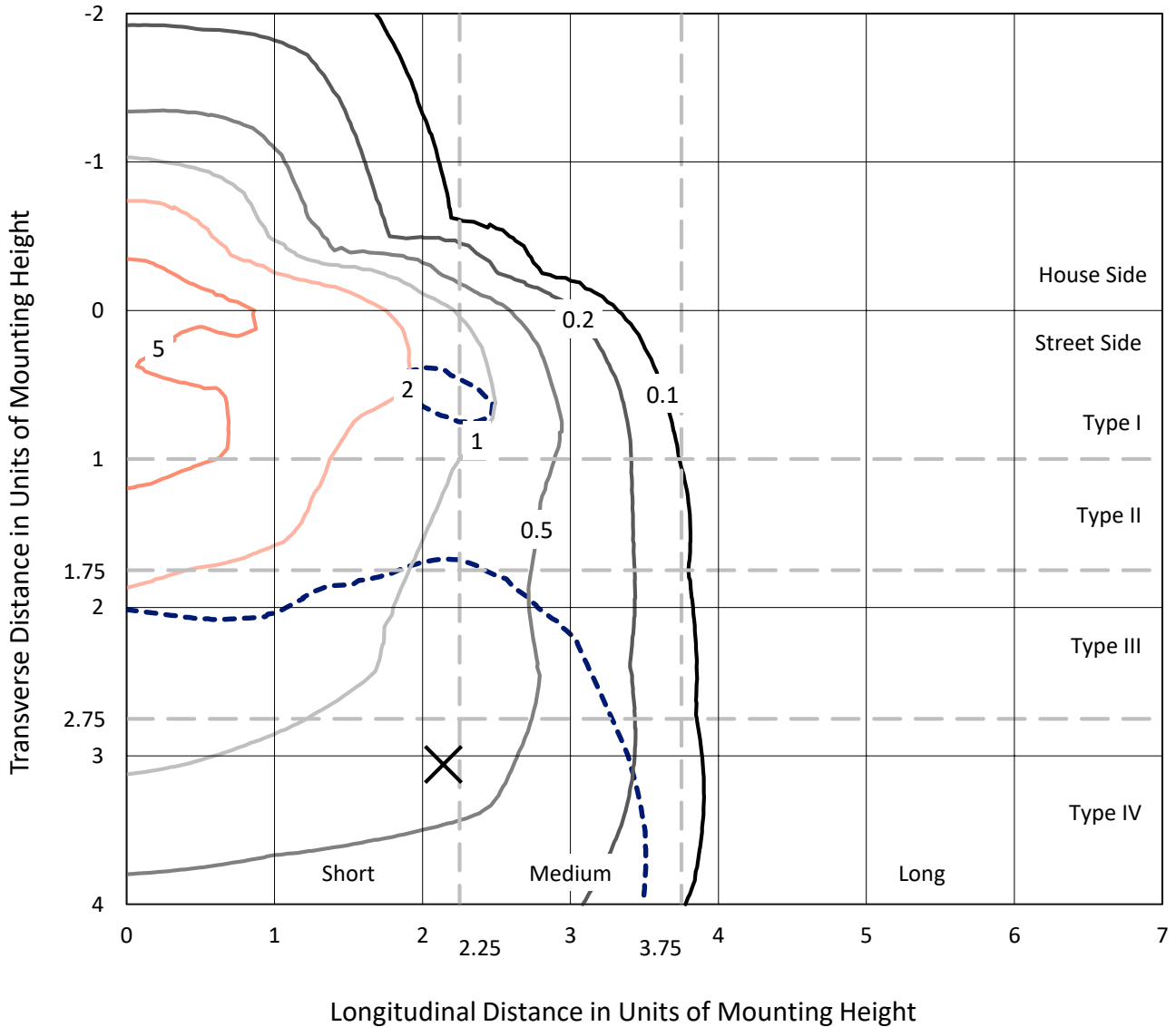


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Iso-Footcandle Lines of Horizontal Illumination

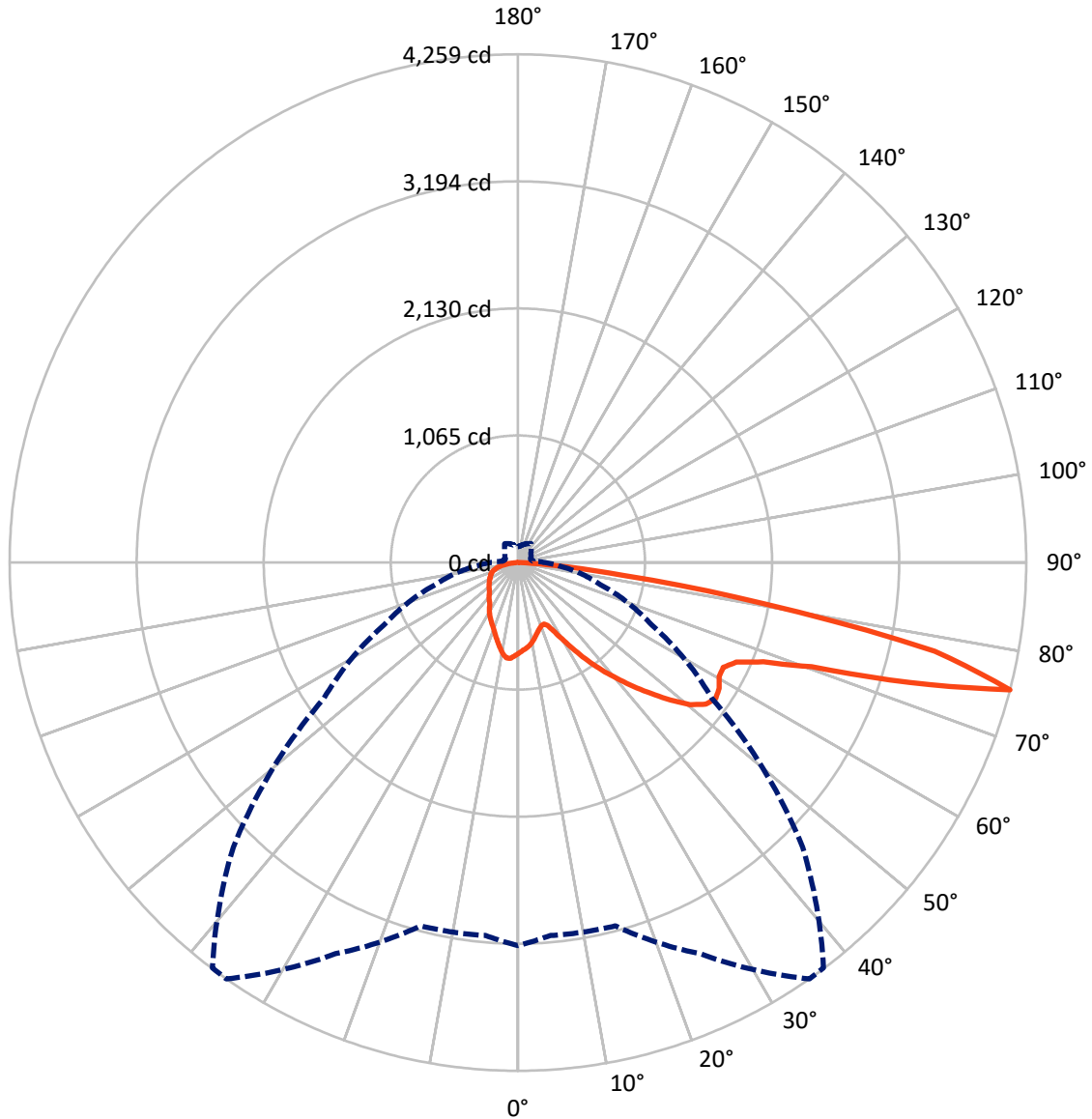
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1016.2	0.0	1016.2
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	4046.8	0.0	4046.8
	% Fixture	79.9	0.0	79.9
Total	Lumens	5063.0	0.0	5063.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.4
10°-20°	188.4	3.7
20°-30°	298.1	5.9
30°-40°	481.1	9.5
40°-50°	711.8	14.1
50°-60°	915.2	18.1
60°-70°	1133.2	22.4
70°-80°	1141.9	22.6
80°-90°	121.9	2.4
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°	5063.0	100.0
0°-180°	5063.0	100.0



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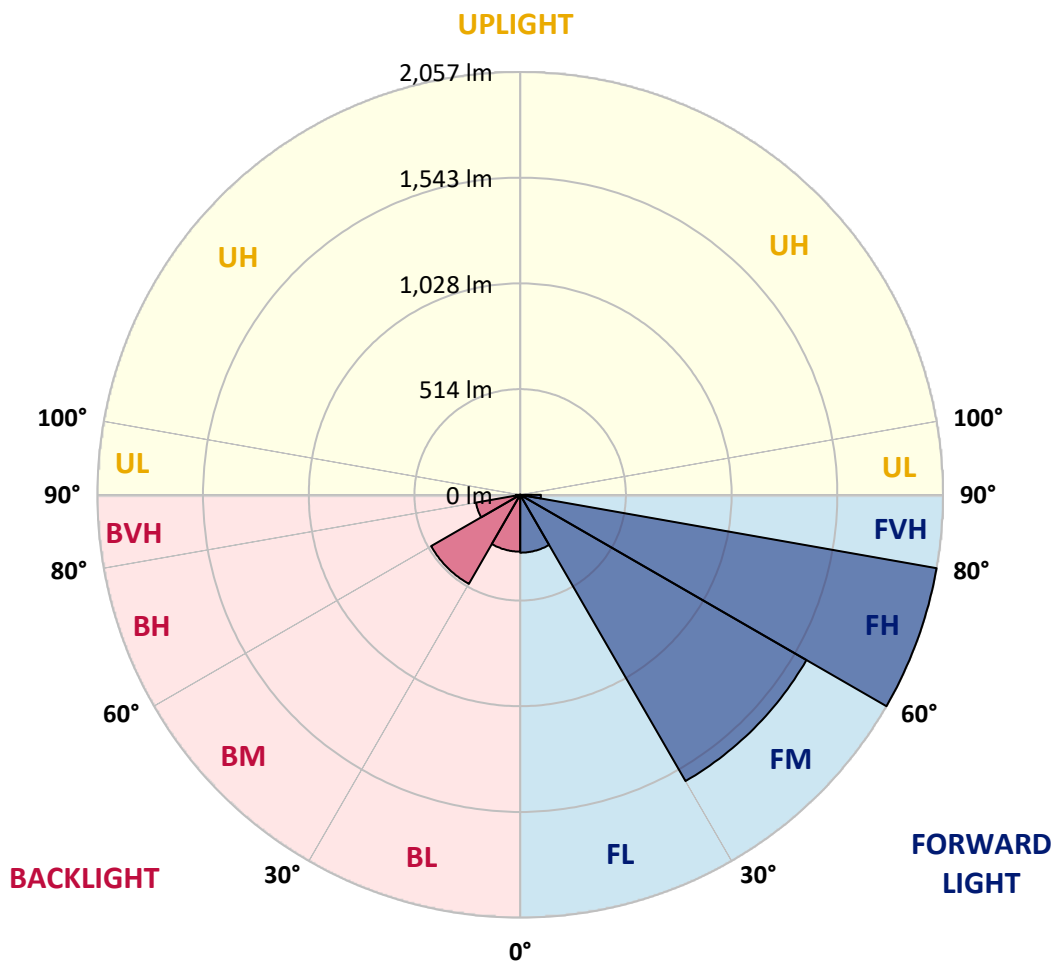
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.5	5.6			
FM	(30°-60°)	1607.7	31.8			
FH	(60°-80°)	2056.8	40.6			G2/5000
FVH	(80°-90°)	100.8	2.0			G2/225
BL	(0°-30°)	276.4	5.5	B1/500		
BM	(30°-60°)	500.4	9.9	B1/1000		
BH	(60°-80°)	218.3	4.3	B1/500		G1/500
BVH	(80°-90°)	21.1	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6
2.5°	738.6	736.9	735.2	735.2	738.6	738.6	740.3	742.0	743.7	748.8	755.5
5°	718.3	716.6	715.0	716.6	721.7	721.7	726.8	730.2	733.5	742.0	750.4
7.5°	691.3	691.3	689.6	696.4	701.4	699.7	706.5	709.9	718.3	726.8	740.3
10°	655.8	655.8	655.8	664.2	672.7	672.7	677.8	686.2	693.0	704.8	721.7
12.5°	625.4	623.7	623.7	630.4	640.6	642.3	650.7	662.6	671.0	686.2	704.8
15°	615.2	611.9	603.4	603.4	608.5	608.5	622.0	638.9	652.4	667.6	689.6
17.5°	616.9	611.9	589.9	583.1	583.1	584.8	598.3	616.9	633.8	652.4	681.2
20°	632.1	623.7	583.1	567.9	564.5	566.2	578.0	596.6	616.9	642.3	674.4
22.5°	698.1	684.5	608.5	574.7	559.5	559.5	566.2	586.5	611.9	645.7	686.2
25°	850.2	828.2	693.0	632.1	586.5	581.4	569.6	589.9	620.3	660.9	720.0
27.5°	1005.7	983.7	797.8	731.9	660.9	645.7	601.7	606.8	640.6	694.7	770.7
30°	1135.8	1117.2	929.6	853.6	758.9	742.0	674.4	642.3	676.1	742.0	846.8
32.5°	1146.0	1137.5	1071.6	993.8	878.9	855.2	765.7	715.0	731.9	806.2	929.6
35°	1240.6	1233.8	1198.4	1124.0	1009.0	982.0	887.4	809.6	804.5	877.2	1024.3
37.5°	1333.6	1325.1	1301.5	1250.7	1144.3	1122.3	1047.9	922.8	887.4	960.0	1117.2
40°	1421.5	1409.6	1379.2	1350.5	1272.7	1272.7	1193.3	1031.0	966.8	1032.7	1195.0
42.5°	1583.7	1546.5	1465.4	1443.4	1421.5	1421.5	1304.8	1105.4	1031.0	1112.2	1269.3
45°	1739.2	1703.7	1593.9	1549.9	1561.7	1555.0	1394.4	1147.6	1088.5	1186.5	1340.3
47.5°	1862.6	1830.5	1718.9	1688.5	1722.3	1695.3	1468.8	1181.5	1161.2	1266.0	1399.5
50°	1972.5	1896.4	1788.2	1828.8	1871.1	1825.4	1534.7	1232.2	1233.8	1350.5	1485.7
52.5°	1822.0	1813.6	1837.2	1931.9	1972.5	1921.8	1593.9	1296.4	1311.6	1458.6	1583.7
55°	1641.2	1639.5	1778.1	1962.3	2011.3	1964.0	1632.7	1374.1	1392.7	1592.2	1707.1
57.5°	1605.7	1588.8	1683.4	1898.1	1987.7	1953.9	1653.0	1446.8	1470.5	1761.2	1828.8
60°	1720.6	1688.5	1673.3	1828.8	1937.0	1920.1	1678.4	1533.0	1565.1	1953.9	1942.0
62.5°	1970.8	1926.8	1818.7	1833.9	1931.9	1918.4	1739.2	1634.4	1671.6	2146.6	2006.3
65°	2302.1	2269.9	2097.5	1974.2	2011.3	1992.7	1849.1	1762.9	1783.2	2285.2	1933.6
67.5°	2665.4	2621.5	2433.9	2264.9	2217.5	2182.0	2023.2	1915.0	1842.3	2264.9	1739.2
70°	3076.2	3028.8	2866.6	2692.5	2611.4	2572.5	2327.4	2046.8	1820.3	2041.8	1372.4
72.5°	3581.5	3517.3	3427.7	3446.3	3432.8	3324.6	2812.5	2090.8	1659.8	1519.5	819.7
75°	3209.7	3137.0	3152.2	3617.0	4259.3	4254.2	3373.6	1982.6	1237.2	716.6	354.9
77.5°	1151.0	1272.7	1877.8	2709.4	3571.4	3566.3	2611.4	1240.6	530.7	305.9	214.7
80°	289.0	294.1	466.5	1112.2	2085.7	2068.8	1480.6	468.2	221.4	185.9	147.0
82.5°	93.0	99.7	170.7	383.7	892.4	872.1	459.7	153.8	138.6	120.0	89.6
85°	30.4	30.4	60.8	131.8	294.1	282.3	93.0	55.8	76.1	62.5	40.6
87.5°	0.0	0.0	1.7	3.4	6.8	3.4	0.0	3.4	10.1	11.8	8.5
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°	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6
2.5°	760.6	758.9	765.7	770.7	772.4	777.5	782.6	785.9	784.3	782.6	782.6
5°	758.9	760.6	772.4	782.6	791.0	799.5	806.2	809.6	807.9	807.9	807.9
7.5°	748.8	755.5	769.0	785.9	797.8	802.8	804.5	799.5	796.1	791.0	791.0
10°	731.9	742.0	764.0	782.6	787.6	780.9	770.7	760.6	747.1	738.6	738.6
12.5°	718.3	730.2	757.2	772.4	765.7	748.8	726.8	709.9	696.4	686.2	684.5
15°	706.5	721.7	750.4	753.8	738.6	709.9	681.2	662.6	647.3	640.6	640.6
17.5°	698.1	718.3	743.7	733.5	703.1	665.9	638.9	623.7	611.9	605.1	603.4
20°	699.7	725.1	736.9	708.2	664.2	625.4	600.0	591.6	583.1	579.7	579.7
22.5°	718.3	742.0	735.2	686.2	628.8	584.8	567.9	566.2	562.8	559.5	557.8
25°	758.9	775.8	740.3	664.2	591.6	547.6	539.2	544.2	542.6	539.2	539.2
27.5°	814.7	818.1	748.8	642.3	551.0	512.1	512.1	520.6	517.2	512.1	515.5
30°	882.3	863.7	752.1	606.8	503.7	478.3	483.4	488.5	485.1	478.3	478.3
32.5°	955.0	911.0	752.1	561.1	458.0	447.9	449.6	451.3	444.5	436.1	436.1
35°	1026.0	956.7	743.7	507.1	422.6	417.5	415.8	422.6	417.5	405.6	405.6
37.5°	1093.6	992.1	721.7	451.3	395.5	393.8	398.9	395.5	388.7	371.8	368.5
40°	1140.9	1015.8	677.8	405.6	373.5	383.7	380.3	361.7	351.6	339.7	339.7
42.5°	1183.1	1027.6	623.7	370.2	358.3	371.8	358.3	334.7	321.1	319.4	321.1
45°	1222.0	1037.8	571.3	341.4	339.7	358.3	341.4	316.1	300.9	300.9	302.5
47.5°	1259.2	1047.9	518.9	314.4	317.8	338.0	327.9	302.5	287.3	277.2	277.2
50°	1318.4	1071.6	442.8	285.6	292.4	321.1	317.8	289.0	272.1	256.9	253.5
52.5°	1389.3	1112.2	360.0	255.2	273.8	305.9	305.9	277.2	258.6	238.3	234.9
55°	1484.0	1156.1	289.0	233.2	255.2	289.0	294.1	272.1	245.1	226.5	223.1
57.5°	1578.6	1171.3	233.2	211.3	231.6	272.1	285.6	262.0	229.9	216.3	214.7
60°	1644.6	1122.3	196.1	192.7	214.7	251.8	273.8	250.1	219.7	206.2	206.2
62.5°	1634.4	973.6	175.8	180.9	201.1	236.6	263.7	240.0	213.0	204.5	202.8
65°	1490.8	735.2	158.9	170.7	189.3	221.4	253.5	234.9	209.6	201.1	197.8
67.5°	1255.8	488.5	147.0	160.6	177.5	209.6	245.1	228.2	199.4	194.4	191.0
70°	909.3	285.6	135.2	150.4	165.6	196.1	233.2	214.7	187.6	184.2	175.8
72.5°	491.8	179.2	121.7	136.9	150.4	179.2	214.7	197.8	172.4	158.9	153.8
75°	224.8	130.1	108.2	121.7	131.8	157.2	192.7	174.1	153.8	136.9	133.5
77.5°	150.4	98.0	91.3	104.8	109.9	131.8	170.7	138.6	120.0	108.2	104.8
80°	103.1	72.7	74.4	86.2	84.5	104.8	128.5	111.6	94.7	98.0	89.6
82.5°	65.9	50.7	57.5	60.8	59.2	79.4	99.7	84.5	71.0	59.2	50.7
85°	28.7	27.0	33.8	35.5	35.5	43.9	52.4	42.3	32.1	23.7	23.7
87.5°	1.7	3.4	3.4	5.1	3.4	1.7	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)