

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: P595254

Luminaire Tested: **IST-PA1D-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595254
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: IST-PA1D-830-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 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: 6664 lumens
Efficiency: N/A
Efficacy: 106.8 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

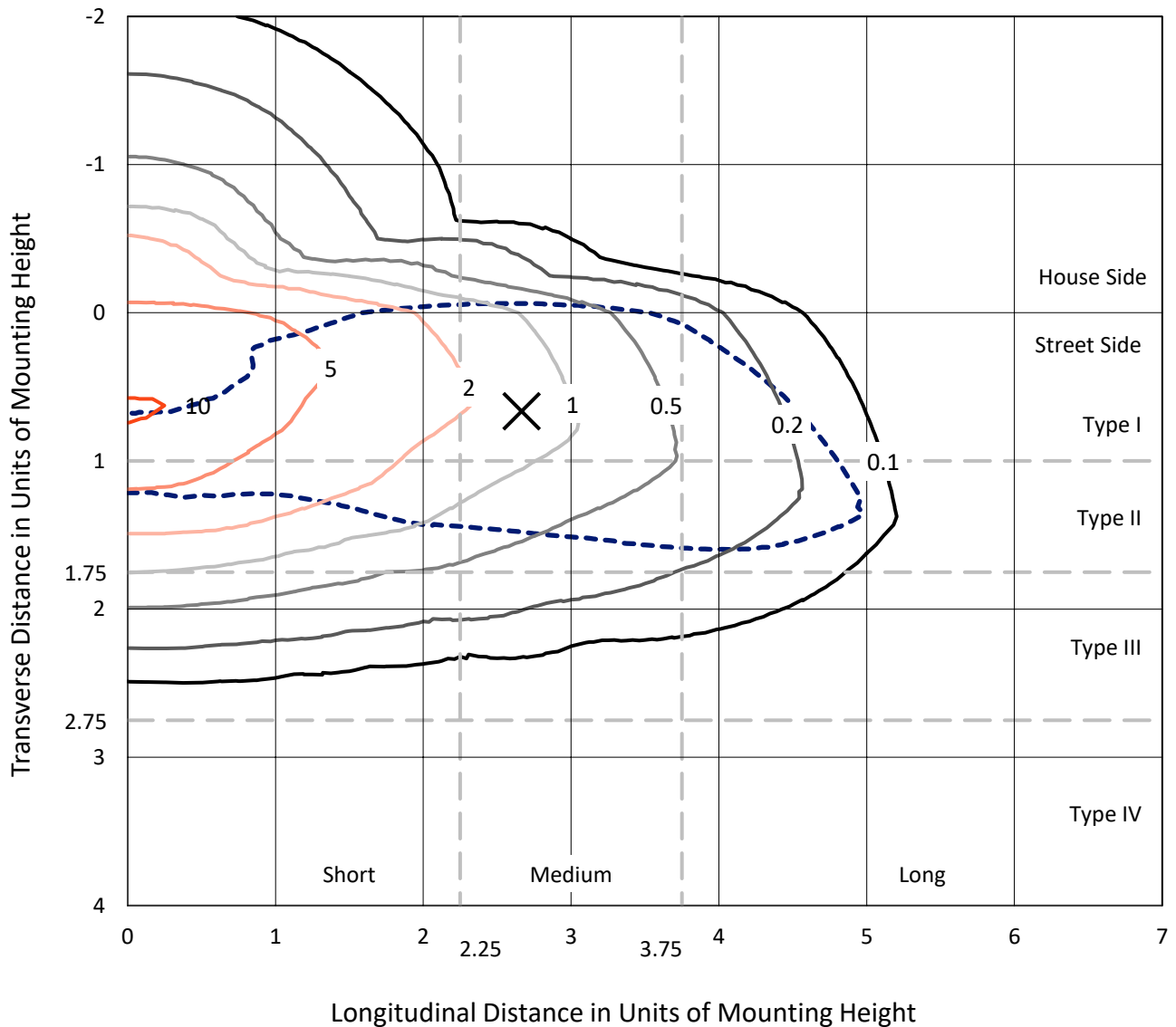
Input Watts (W): 62.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

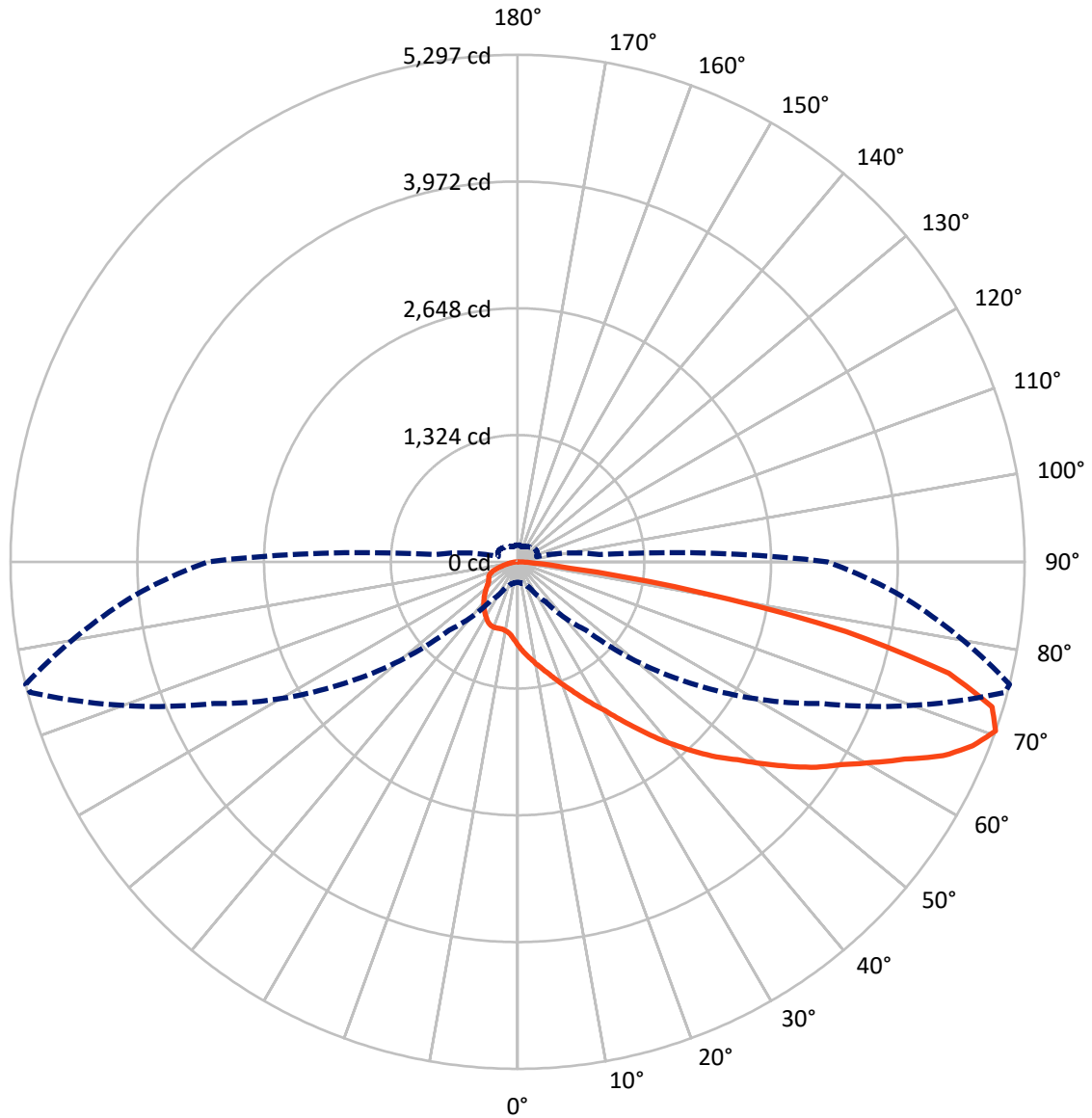
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.5 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	1068.8	0.0	1068.8
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	5595.1	0.0	5595.1
	% Fixture	84.0	0.0	84.0
Total	Lumens	6664.0	0.0	6664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	281.2	4.2
20°-30°	518.1	7.8
30°-40°	868.1	13.0
40°-50°	1233.6	18.5
50°-60°	1424.2	21.4
60°-70°	1309.3	19.6
70°-80°	825.5	12.4
80°-90°	118.7	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°	6664.0	100.0
0°-180°	6664.0	100.0

Coefficient of Utilization

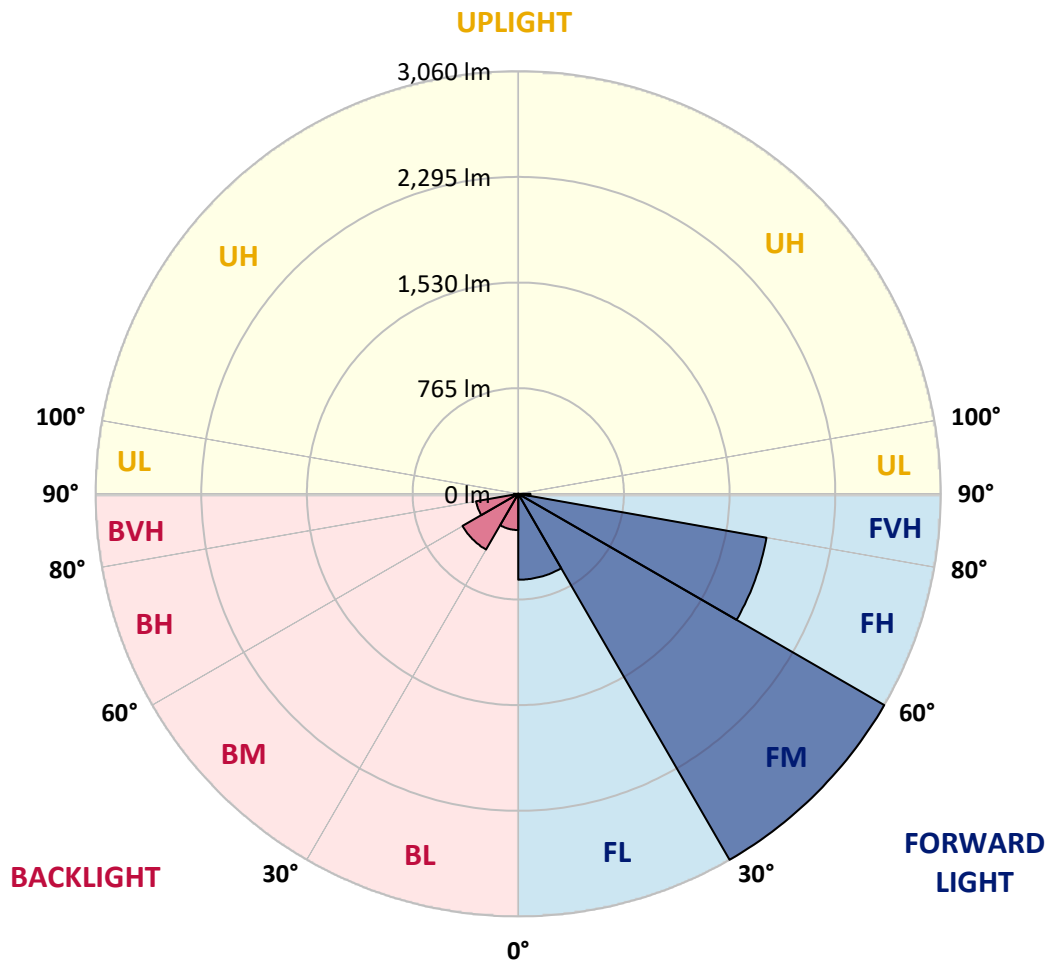


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	622.2	9.3			
FM (30°-60°)	3060.0	45.9			
FH (60°-80°)	1825.0	27.4			G2/5000
FVH (80°-90°)	88.0	1.3			G1/100
BL (0°-30°)	262.4	3.9	B1/500		
BM (30°-60°)	466.0	7.0	B1/1000		
BH (60°-80°)	309.8	4.6	B1/500		G1/500
BVH (80°-90°)	30.7	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°	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2
2.5°	1052.3	1050.7	1045.9	1037.8	1031.4	1012.2	986.5	964.0	930.4	927.2	893.5
5°	1146.9	1140.5	1140.5	1132.5	1124.5	1103.6	1071.5	1031.4	983.3	980.1	915.9
7.5°	1191.8	1193.4	1190.2	1183.8	1185.4	1167.8	1138.9	1098.8	1033.0	1029.8	946.4
10°	1256.0	1254.4	1248.0	1243.2	1241.5	1225.5	1199.8	1162.9	1094.0	1087.6	981.7
12.5°	1318.5	1313.7	1315.3	1313.7	1310.5	1294.5	1270.4	1233.5	1148.5	1145.3	1025.0
15°	1353.8	1352.2	1363.5	1366.7	1379.5	1365.1	1344.2	1302.5	1225.5	1212.7	1076.3
17.5°	1376.3	1374.7	1385.9	1411.6	1435.6	1435.6	1429.2	1384.3	1299.3	1289.7	1134.1
20°	1414.8	1421.2	1440.5	1461.3	1496.6	1503.0	1501.4	1482.2	1384.3	1374.7	1198.2
22.5°	1491.8	1488.6	1504.6	1536.7	1568.8	1578.4	1580.0	1580.0	1482.2	1464.5	1264.0
25°	1657.0	1649.0	1636.1	1632.9	1671.4	1669.8	1665.0	1676.3	1584.8	1572.0	1339.4
27.5°	1971.4	1953.8	1904.0	1804.6	1782.1	1790.1	1766.1	1767.7	1701.9	1685.9	1403.6
30°	2269.8	2261.7	2215.2	2094.9	1968.2	1923.3	1881.6	1863.9	1831.8	1804.6	1472.5
32.5°	2539.2	2540.8	2484.7	2353.2	2223.2	2082.1	2009.9	1973.0	1985.8	1961.8	1567.2
35°	2722.1	2707.7	2672.4	2584.2	2443.0	2308.3	2170.3	2088.5	2157.5	2130.2	1661.8
37.5°	2829.6	2818.3	2789.5	2726.9	2656.3	2526.4	2351.6	2226.4	2361.2	2321.1	1782.1
40°	2884.1	2868.1	2839.2	2813.5	2779.9	2709.3	2555.3	2383.6	2547.3	2512.0	1900.8
42.5°	2890.5	2879.3	2863.3	2850.4	2861.7	2852.0	2754.2	2566.5	2743.0	2704.5	2037.2
45°	2885.7	2893.7	2874.5	2852.0	2874.5	2956.3	2956.3	2749.4	2937.0	2908.2	2167.1
47.5°	2888.9	2880.9	2874.5	2868.1	2871.3	2983.6	3095.9	2921.0	3123.1	3089.4	2319.5
50°	2755.8	2767.0	2821.6	2845.6	2860.1	2990.0	3208.1	3107.1	3354.1	3312.4	2489.5
52.5°	2332.3	2338.7	2587.4	2767.0	2824.8	2964.3	3286.7	3314.0	3581.9	3549.8	2672.4
55°	1796.6	1830.2	2066.0	2505.6	2744.6	2921.0	3310.8	3448.7	3814.5	3788.8	2856.8
57.5°	1479.0	1483.8	1620.1	2013.1	2491.1	2880.9	3334.9	3572.3	4023.0	3994.1	3049.3
60°	1227.1	1215.9	1299.3	1552.7	2069.2	2720.5	3339.7	3670.1	4265.2	4255.6	3248.2
62.5°	901.5	914.3	994.5	1209.5	1618.5	2394.9	3315.6	3753.5	4554.0	4541.1	3469.6
65°	553.4	569.4	667.3	864.6	1225.5	1900.8	3158.4	3796.8	4857.1	4886.0	3708.6
67.5°	293.5	304.8	362.5	522.9	840.5	1448.5	2779.9	3742.3	5113.8	5126.6	3938.0
70°	214.9	216.5	235.8	295.1	506.9	1007.4	2213.6	3504.9	5271.0	5296.6	4013.4
72.5°	187.7	189.3	197.3	211.7	275.9	614.4	1586.4	3091.0	5205.2	5182.7	3886.7
75°	170.0	170.0	176.4	181.3	202.1	340.1	972.1	2529.6	4703.1	4653.4	3314.0
77.5°	146.0	146.0	152.4	158.8	174.8	219.8	508.5	1875.2	3596.3	3511.3	2266.5
80°	117.1	117.1	125.1	133.1	154.0	165.2	248.6	1254.4	2056.4	1931.3	1031.4
82.5°	80.2	86.6	101.1	110.7	128.3	117.1	146.0	542.2	648.0	561.4	232.6
85°	48.1	51.3	72.2	83.4	96.2	62.6	89.8	208.5	194.1	170.0	52.9
87.5°	4.8	8.0	28.9	33.7	33.7	17.6	38.5	49.7	56.1	57.7	12.8
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°	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2	874.2
2.5°	874.2	855.0	818.1	784.4	750.7	728.2	705.8	697.8	686.5	678.5	684.9
5°	882.2	842.1	771.6	712.2	672.1	641.6	627.2	619.2	612.8	611.2	609.5
7.5°	891.9	832.5	737.9	672.1	633.6	619.2	616.0	616.0	616.0	617.6	619.2
10°	912.7	835.7	720.2	649.6	628.8	625.6	627.2	633.6	633.6	635.2	635.2
12.5°	936.8	843.7	707.4	646.4	633.6	635.2	636.8	640.0	640.0	644.8	643.2
15°	972.1	859.8	705.8	649.6	638.4	635.2	635.2	633.6	633.6	633.6	636.8
17.5°	1017.0	882.2	707.4	649.6	633.6	627.2	622.4	617.6	611.2	614.4	611.2
20°	1061.9	909.5	707.4	641.6	620.8	604.7	590.3	582.3	574.3	572.7	574.3
22.5°	1118.0	941.6	699.4	624.0	593.5	571.0	550.2	539.0	526.1	521.3	518.1
25°	1166.2	967.3	683.3	598.3	563.0	530.9	503.7	484.4	468.4	465.2	465.2
27.5°	1215.9	989.7	659.3	566.2	519.7	484.4	454.0	429.9	413.8	412.2	410.6
30°	1262.4	1009.0	627.2	530.9	481.2	439.5	404.2	383.4	368.9	360.9	356.1
32.5°	1323.4	1034.6	596.7	495.7	436.3	394.6	362.5	344.9	325.6	312.8	308.0
35°	1400.4	1065.1	563.0	457.2	396.2	354.5	335.3	309.6	285.5	271.1	266.3
37.5°	1487.0	1108.4	527.7	417.1	356.1	325.6	314.4	274.3	248.6	243.8	242.2
40°	1594.4	1150.1	487.6	375.4	317.6	309.6	290.3	248.6	235.8	234.2	232.6
42.5°	1701.9	1195.0	449.1	333.6	287.1	290.3	263.1	242.2	231.0	227.8	226.2
45°	1827.0	1239.9	410.6	296.8	263.1	263.1	248.6	235.8	226.2	223.0	223.0
47.5°	1958.6	1284.9	368.9	264.7	245.4	235.8	237.4	227.8	221.4	218.2	216.5
50°	2123.8	1328.2	330.4	242.2	234.2	221.4	226.2	219.8	216.5	213.3	211.7
52.5°	2279.4	1347.4	295.1	229.4	227.8	214.9	216.5	213.3	211.7	206.9	205.3
55°	2431.8	1342.6	267.9	223.0	219.8	213.3	210.1	208.5	206.9	202.1	200.5
57.5°	2601.8	1336.2	250.2	221.4	214.9	208.5	208.5	203.7	197.3	197.3	197.3
60°	2778.2	1315.3	242.2	221.4	213.3	208.5	205.3	200.5	194.1	195.7	194.1
62.5°	2977.2	1275.2	237.4	226.2	214.9	206.9	203.7	197.3	189.3	190.9	189.3
65°	3152.0	1193.4	234.2	231.0	218.2	208.5	200.5	192.5	182.9	184.5	182.9
67.5°	3270.7	1055.5	224.6	234.2	223.0	206.9	197.3	186.1	173.2	179.7	178.1
70°	3237.0	858.2	206.9	227.8	227.8	208.5	192.5	178.1	163.6	176.4	171.6
72.5°	2975.5	644.8	173.2	205.3	224.6	208.5	182.9	165.2	152.4	160.4	150.8
75°	2443.0	437.9	137.9	163.6	210.1	210.1	174.8	152.4	136.3	131.5	128.3
77.5°	1523.9	272.7	107.5	120.3	176.4	208.5	166.8	136.3	113.9	110.7	107.5
80°	603.1	146.0	85.0	86.6	129.9	190.9	155.6	115.5	91.4	88.2	81.8
82.5°	137.9	73.8	59.4	57.7	80.2	155.6	141.2	91.4	70.6	70.6	59.4
85°	41.7	38.5	38.5	36.9	40.1	80.2	109.1	62.6	48.1	33.7	28.9
87.5°	11.2	16.0	14.4	12.8	12.8	11.2	35.3	16.0	9.6	4.8	3.2
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)