

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: P595058

Luminaire Tested: **IST-PA1B-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595058
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1B-740-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5172 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

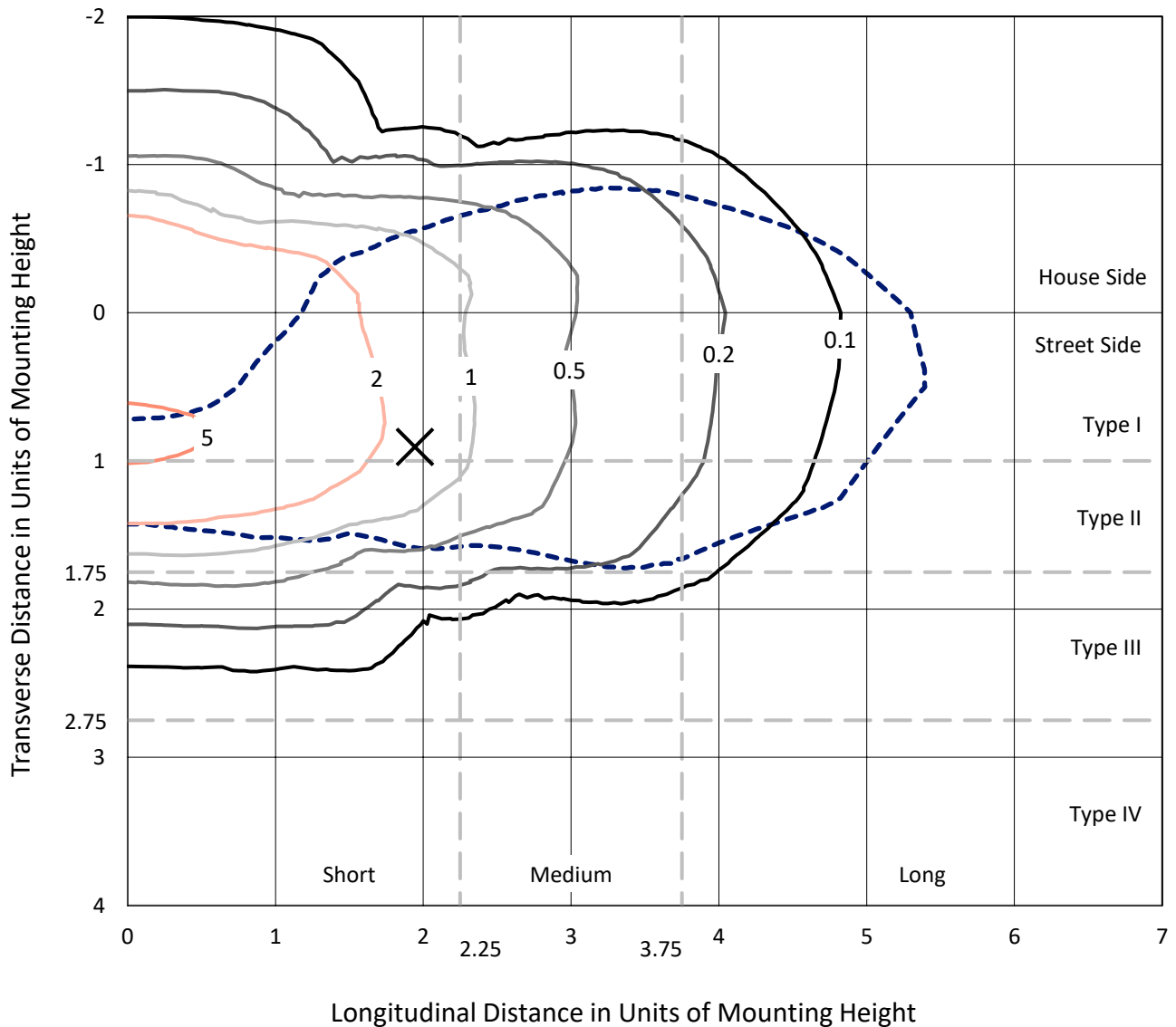
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

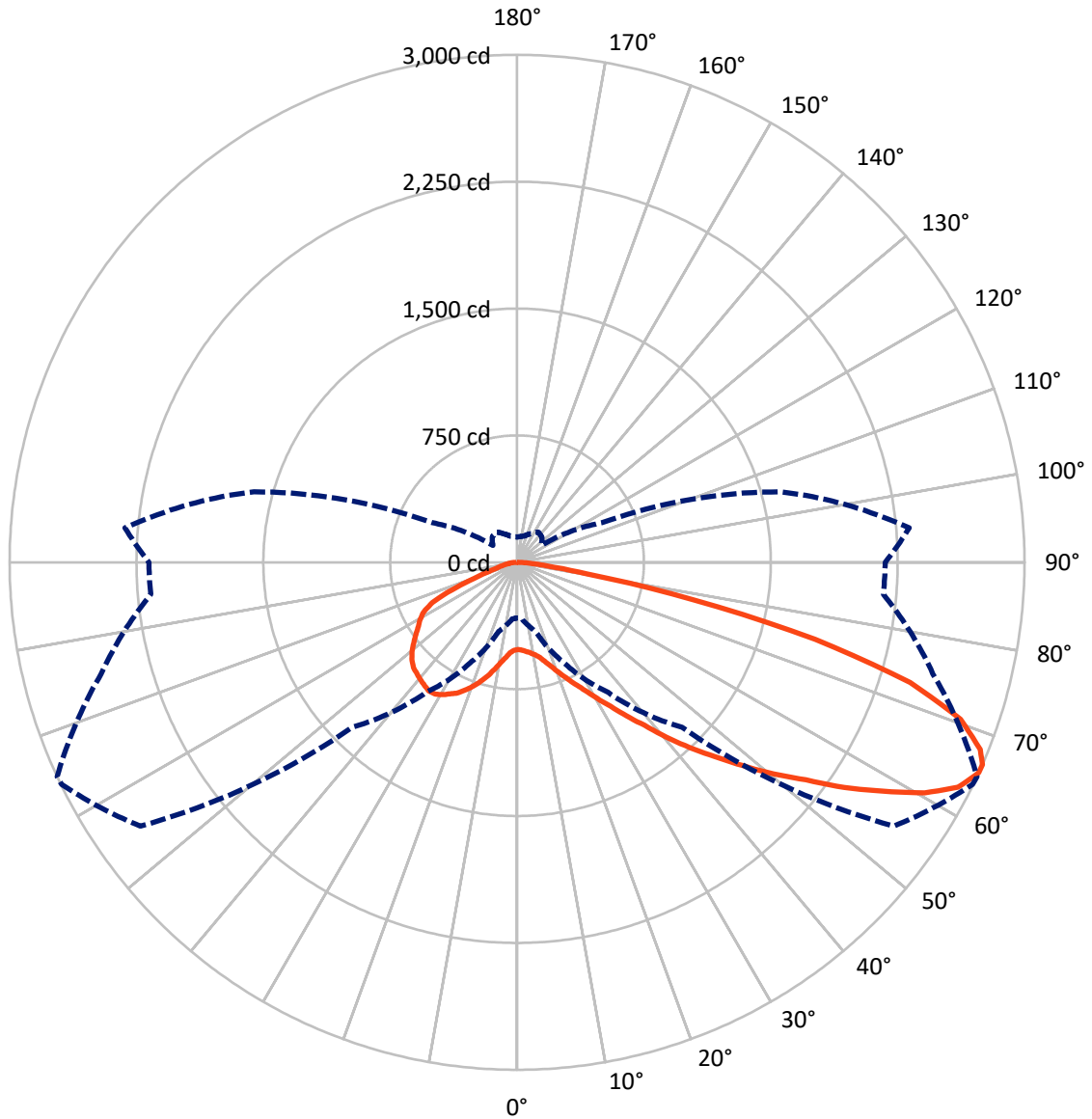
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1570.4	0.0	1570.4
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3601.6	0.0	3601.6
	% Fixture	69.6	0.0	69.6
Total	Lumens	5172.0	0.0	5172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.0
10°-20°	183.3	3.5
20°-30°	359.0	6.9
30°-40°	586.6	11.3
40°-50°	931.1	18.0
50°-60°	1197.5	23.2
60°-70°	1079.9	20.9
70°-80°	669.8	13.0
80°-90°	112.2	2.2
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°	5172.0	100.0
0°-180°	5172.0	100.0

Coefficient of Utilization

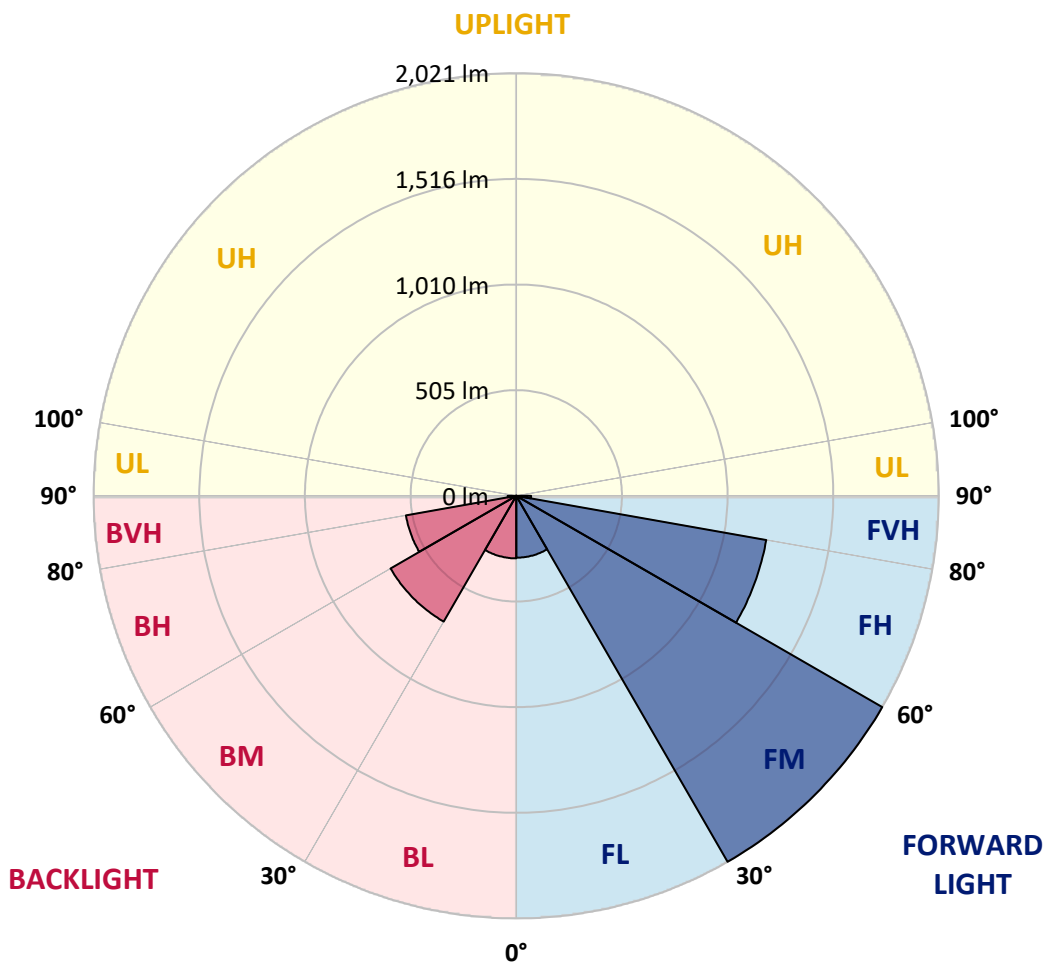


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.8	5.7			
FM (30°-60°)	2020.9	39.1			
FH (60°-80°)	1213.9	23.5			G1/1800
FVH (80°-90°)	71.0	1.4			G1/100
BL (0°-30°)	299.1	5.8	B1/500		
BM (30°-60°)	694.2	13.4	B1/1000		
BH (60°-80°)	535.8	10.4	B2/1000		G2/1000
BVH (80°-90°)	41.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	516.8	518.0	519.3	516.8	519.3	520.5	518.0	518.0	519.3	516.8	516.8
5°	513.0	514.3	516.8	518.0	523.1	525.6	526.8	526.8	528.1	526.8	528.1
7.5°	503.0	503.0	508.0	510.5	518.0	526.8	531.8	539.4	539.4	540.6	544.4
10°	513.0	513.0	516.8	520.5	526.8	534.3	541.9	550.6	553.2	561.9	567.0
12.5°	528.1	530.6	535.6	540.6	548.1	556.9	563.2	572.0	573.2	582.0	592.0
15°	553.2	555.7	558.2	564.4	574.5	585.8	597.1	603.3	605.8	610.9	618.4
17.5°	590.8	593.3	594.5	598.3	605.8	620.9	637.2	642.2	644.7	644.7	651.0
20°	654.8	653.5	651.0	643.5	643.5	657.3	679.8	688.6	691.1	686.1	682.3
22.5°	728.8	727.5	717.5	708.7	702.4	704.9	727.5	742.6	741.3	731.3	716.2
25°	825.3	827.9	811.5	789.0	770.2	765.1	778.9	794.0	796.5	777.7	752.6
27.5°	940.7	937.0	928.2	891.8	855.4	832.9	840.4	856.7	858.0	837.9	797.7
30°	1076.2	1069.9	1047.4	1009.7	953.3	921.9	915.7	929.5	933.2	899.3	841.6
32.5°	1226.7	1220.5	1191.6	1133.9	1072.4	1019.8	999.7	1018.5	1016.0	977.1	896.8
35°	1408.6	1407.3	1354.7	1283.2	1205.4	1135.2	1107.6	1107.6	1115.1	1057.4	967.1
37.5°	1651.9	1662.0	1584.2	1472.6	1363.4	1269.4	1223.0	1220.5	1221.7	1159.0	1046.1
40°	1871.4	1867.7	1822.5	1718.4	1559.1	1438.7	1369.7	1354.7	1358.4	1278.2	1149.0
42.5°	1998.1	2001.9	1990.6	1945.4	1806.2	1654.4	1536.5	1496.4	1497.7	1397.3	1246.8
45°	2077.2	2080.9	2079.7	2102.2	2047.0	1904.1	1736.0	1643.2	1638.1	1532.8	1362.2
47.5°	2122.3	2124.8	2141.1	2187.5	2232.7	2200.1	1956.7	1806.2	1796.2	1659.5	1477.6
50°	2072.1	2073.4	2138.6	2249.0	2359.4	2458.5	2182.5	1968.0	1965.5	1799.9	1590.5
52.5°	1808.7	1831.3	1975.6	2206.3	2453.4	2641.6	2443.4	2158.7	2137.4	1932.9	1703.4
55°	1476.3	1486.4	1651.9	1945.4	2435.9	2754.5	2640.3	2364.4	2349.3	2080.9	1813.7
57.5°	1152.7	1162.8	1359.7	1604.3	2167.5	2748.2	2779.6	2586.4	2552.5	2210.1	1924.1
60°	743.8	775.2	1003.5	1304.5	1754.8	2557.6	2849.8	2799.6	2768.3	2338.1	2018.2
62.5°	505.5	510.5	653.5	967.1	1313.3	2078.4	2844.8	2931.3	2926.3	2466.0	2112.3
65°	328.6	336.2	422.7	654.8	939.5	1379.8	2719.4	2995.3	3000.3	2545.0	2173.7
66°	278.5	283.5	350.0	550.6	822.8	1093.8	2609.0	2990.3	3000.3	2581.4	2192.6
67.5°	242.1	245.8	279.7	406.4	672.3	786.5	2321.7	2923.8	2952.7	2615.3	2216.4
70°	208.2	213.2	244.6	277.2	480.4	459.1	1470.1	2753.2	2782.1	2631.6	2231.4
72.5°	171.8	175.6	207.0	250.9	348.7	308.6	648.5	2356.9	2429.6	2571.4	2207.6
75°	135.5	138.0	166.8	209.5	267.2	240.8	282.2	1728.5	1820.0	2266.6	2114.8
77.5°	105.4	106.6	129.2	163.1	244.6	186.9	174.4	841.6	1064.9	1751.0	1862.7
80°	72.8	75.3	95.3	122.9	179.4	148.0	116.7	328.6	417.7	1162.8	1412.4
82.5°	47.7	48.9	65.2	92.8	119.2	141.7	76.5	159.3	175.6	535.6	612.1
85°	32.6	32.6	46.4	57.7	81.5	94.1	50.2	84.0	91.6	203.2	74.0
87.5°	16.3	16.3	22.6	30.1	38.9	36.4	30.1	30.1	30.1	66.5	21.3
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°	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5	515.5
2.5°	518.0	518.0	519.3	520.5	521.8	521.8	523.1	523.1	521.8	523.1	524.3
5°	529.3	530.6	533.1	536.8	543.1	549.4	555.7	559.4	563.2	564.4	561.9
7.5°	546.9	549.4	558.2	568.2	578.2	593.3	602.1	607.1	609.6	612.1	609.6
10°	569.5	574.5	587.0	604.6	622.1	641.0	651.0	658.5	659.8	662.3	659.8
12.5°	595.8	604.6	623.4	648.5	669.8	688.6	696.1	691.1	679.8	674.8	673.6
15°	627.2	635.9	662.3	693.6	718.7	727.5	716.2	699.9	687.4	686.1	684.9
17.5°	654.8	667.3	703.7	736.3	760.1	751.3	721.2	711.2	707.4	712.5	711.2
20°	689.9	699.9	736.3	776.4	789.0	755.1	733.8	727.5	723.7	723.7	721.2
22.5°	718.7	726.3	770.2	814.1	806.5	757.6	742.6	730.0	717.5	716.2	712.5
25°	752.6	755.1	801.5	849.2	809.0	760.1	733.8	712.5	699.9	696.1	697.4
27.5°	783.9	790.2	830.4	873.0	802.8	746.3	703.7	676.1	657.3	656.0	656.0
30°	824.1	824.1	860.5	899.3	789.0	711.2	654.8	614.6	599.6	598.3	595.8
32.5°	869.2	861.7	896.8	918.2	758.9	663.5	588.3	543.1	519.3	514.3	510.5
35°	932.0	915.7	940.7	921.9	728.8	595.8	504.2	452.8	435.2	427.7	427.7
37.5°	1004.7	980.9	1007.2	910.6	682.3	516.8	416.4	377.6	358.7	347.4	351.2
40°	1090.0	1059.9	1075.0	898.1	632.2	429.0	343.7	319.9	297.3	282.2	282.2
42.5°	1190.3	1140.2	1151.5	885.5	560.7	352.5	297.3	281.0	263.4	248.4	252.1
45°	1286.9	1238.0	1226.7	873.0	485.4	301.0	278.5	267.2	250.9	233.3	233.3
47.5°	1398.6	1335.9	1293.2	850.4	411.4	284.7	283.5	267.2	235.8	210.7	208.2
50°	1503.9	1446.2	1353.4	816.6	370.0	298.5	282.2	243.3	213.2	196.9	195.7
52.5°	1615.6	1555.4	1402.3	775.2	348.7	292.3	259.6	223.3	200.7	184.4	180.6
55°	1725.9	1694.6	1446.2	735.0	314.8	272.2	240.8	210.7	186.9	171.8	169.3
57.5°	1851.4	1838.8	1483.9	694.9	262.2	247.1	227.0	201.9	179.4	168.1	166.8
60°	1960.5	2004.4	1529.0	664.8	223.3	228.3	220.8	200.7	184.4	171.8	171.8
62.5°	2075.9	2163.7	1569.2	625.9	194.4	217.0	222.0	199.4	178.1	166.8	166.8
65°	2176.2	2326.8	1610.5	554.4	174.4	208.2	218.3	185.6	160.6	151.8	149.3
66°	2218.9	2373.2	1623.1	510.5	166.8	201.9	212.0	178.1	153.0	145.5	144.2
67.5°	2269.1	2445.9	1638.1	416.4	155.5	188.1	198.2	166.8	140.5	135.5	133.0
70°	2339.3	2461.0	1629.4	272.2	135.5	161.8	176.9	149.3	125.4	121.7	117.9
72.5°	2346.8	2358.1	1541.6	171.8	117.9	139.2	155.5	134.2	110.4	106.6	104.1
75°	2222.7	2089.7	1304.5	122.9	104.1	122.9	136.7	116.7	91.6	86.5	84.0
77.5°	1897.8	1658.2	938.2	91.6	90.3	105.4	114.1	101.6	76.5	72.8	71.5
80°	1332.1	1125.1	470.4	69.0	71.5	87.8	95.3	85.3	64.0	59.0	56.4
82.5°	539.4	477.9	161.8	51.4	53.9	66.5	81.5	70.2	48.9	42.6	37.6
85°	61.5	104.1	70.2	35.1	36.4	45.2	55.2	42.6	28.8	23.8	20.1
87.5°	12.5	22.6	25.1	13.8	12.5	17.6	25.1	15.1	10.0	3.8	5.0
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)