

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: P594558

Luminaire Tested: **ISS-PA1B-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-735-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4849 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

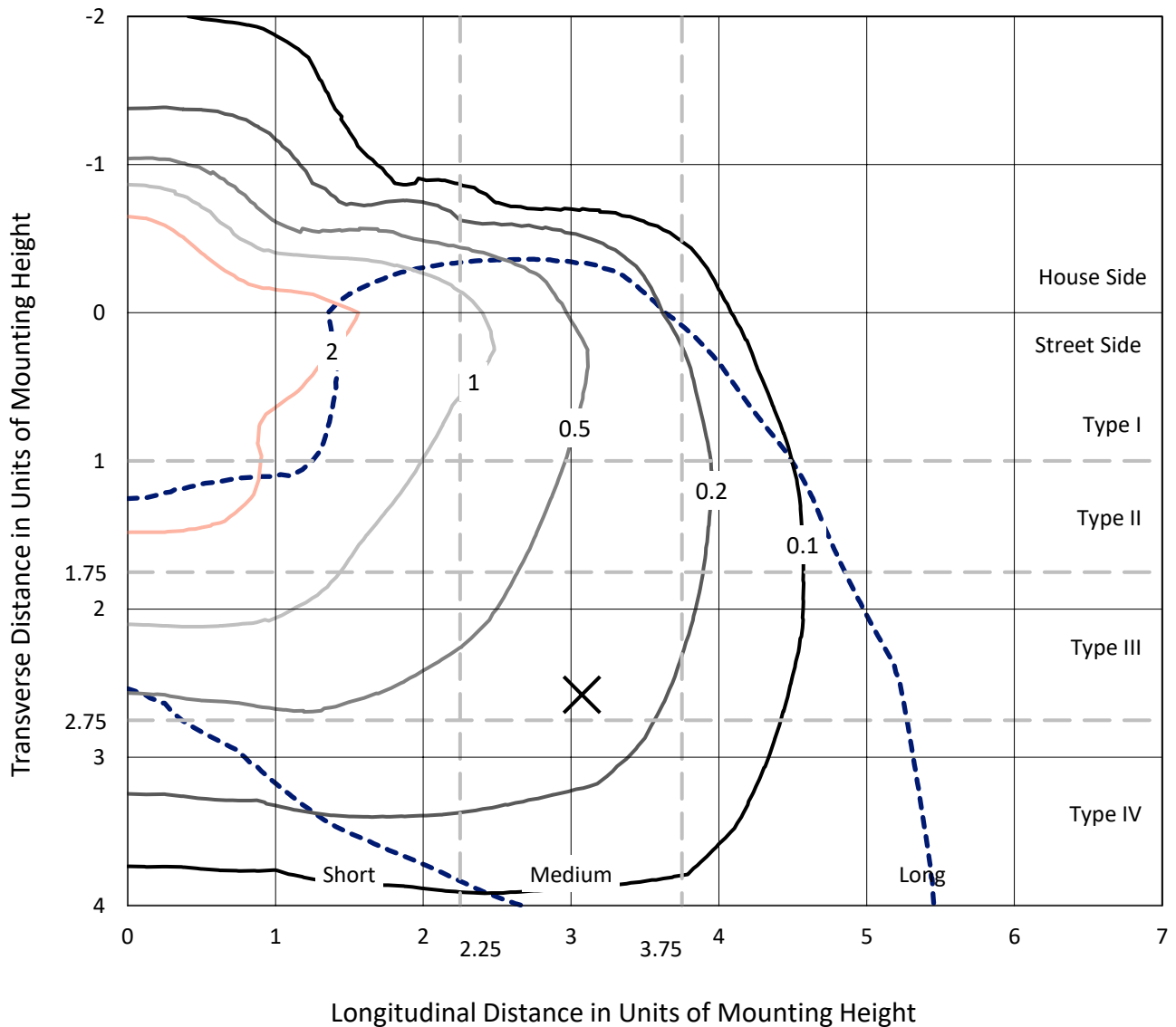
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

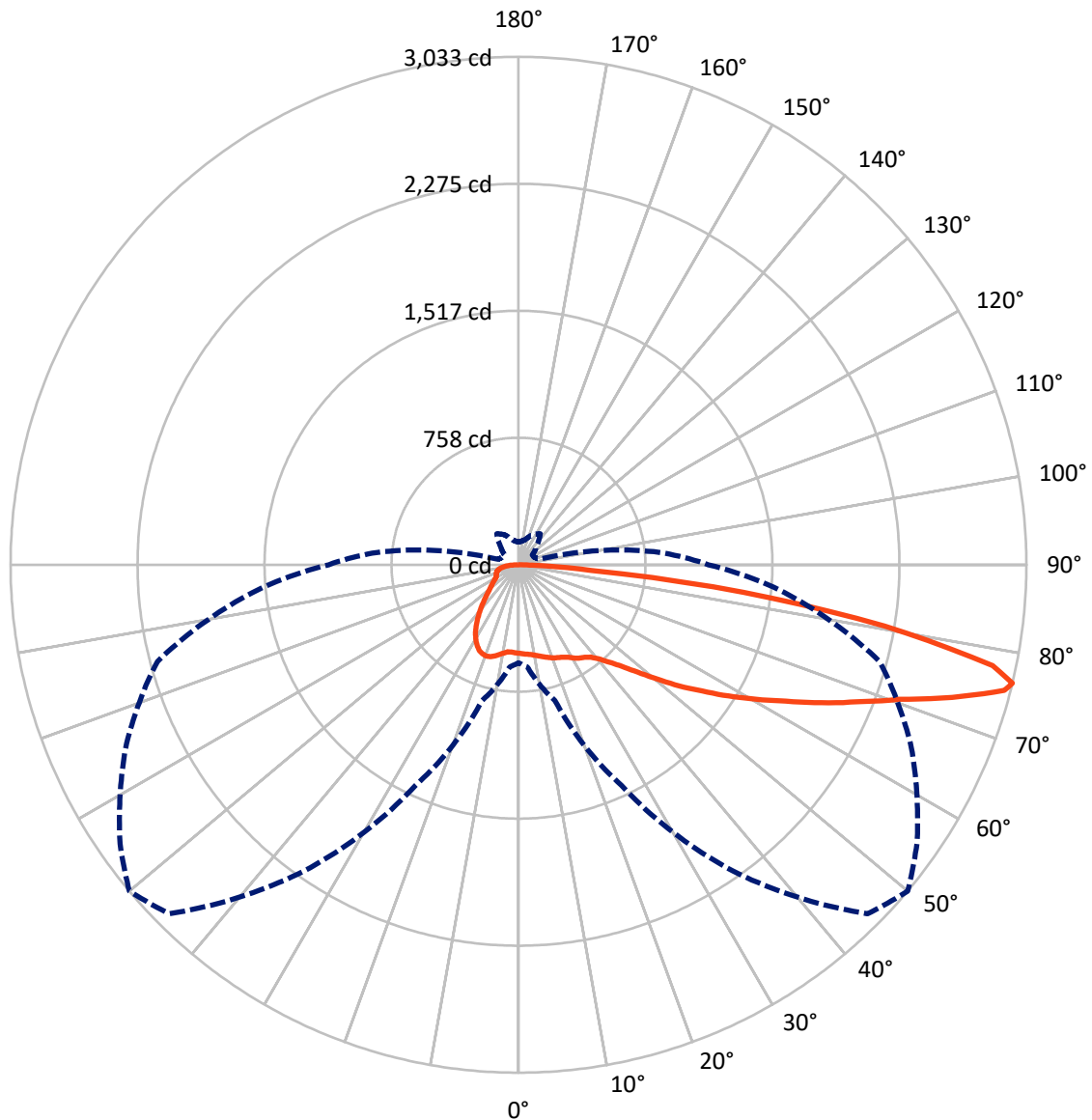
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.3	0.0	1109.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	3739.7	0.0	3739.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	4849.0	0.0	4849.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.3	1.1
10°-20°	161.4	3.3
20°-30°	272.6	5.6
30°-40°	373.6	7.7
40°-50°	550.2	11.3
50°-60°	865.6	17.9
60°-70°	1245.9	25.7
70°-80°	1132.9	23.4
80°-90°	195.6	4.0
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°	4849.0	100.0
0°-180°	4849.0	100.0

Coefficient of Utilization

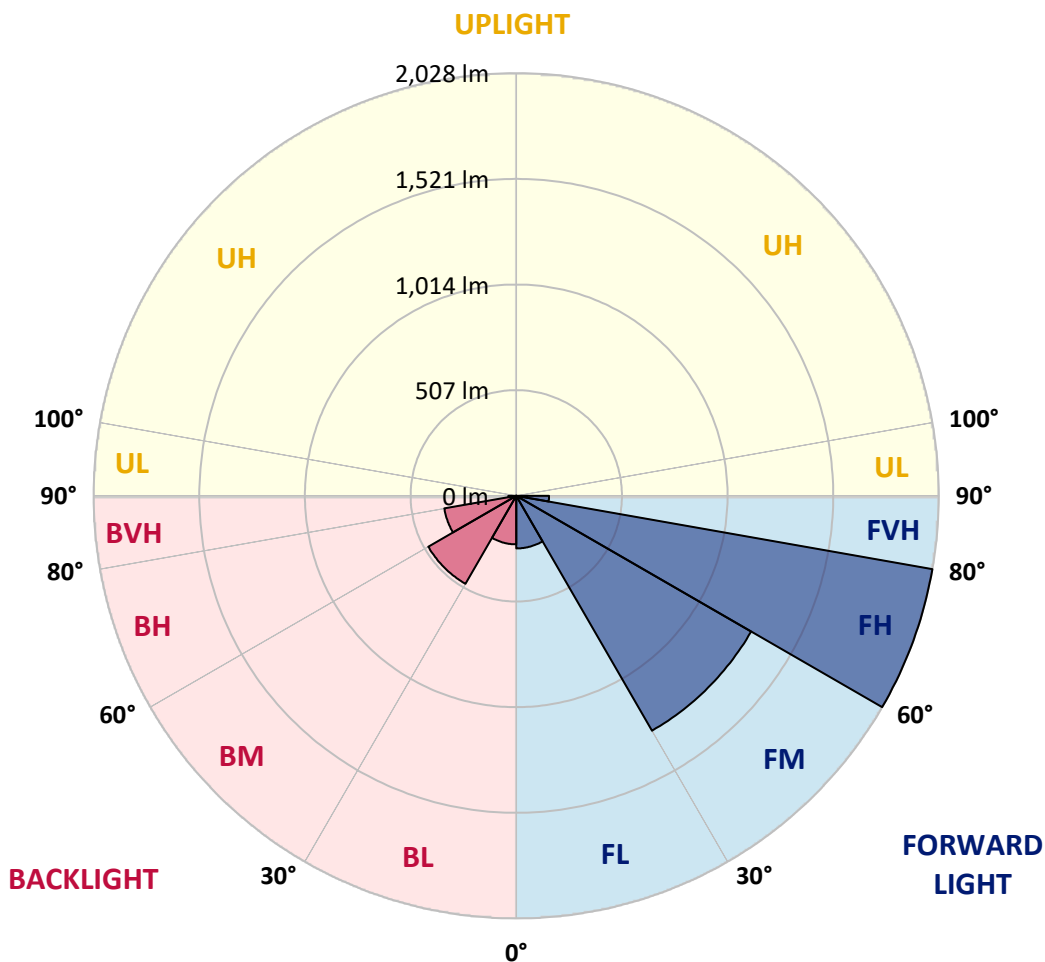


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.4	5.2			
FM (30°-60°)	1301.9	26.8			
FH (60°-80°)	2028.1	41.8			G2/5000
FVH (80°-90°)	157.4	3.2			G2/225
BL (0°-30°)	232.9	4.8	B1/500		
BM (30°-60°)	487.5	10.1	B1/1000		
BH (60°-80°)	350.7	7.2	B1/500		G1/500
BVH (80°-90°)	38.2	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	540.4	540.4	541.6	539.2	539.2	533.3	533.3	532.1	529.7	528.5	526.2
5°	560.6	560.6	557.0	551.1	547.5	540.4	536.8	534.5	529.7	523.8	517.8
7.5°	582.0	579.6	577.2	567.7	560.6	547.5	541.6	538.0	528.5	520.2	516.7
10°	604.5	601.0	595.0	583.2	572.5	557.0	549.9	545.2	534.5	527.3	519.0
12.5°	617.6	617.6	610.5	596.2	582.0	563.0	559.4	553.5	542.8	533.3	525.0
15°	630.7	631.9	624.7	608.1	591.5	577.2	571.3	567.7	555.8	541.6	530.9
17.5°	643.7	642.5	635.4	616.4	598.6	585.5	582.0	577.2	565.3	552.3	541.6
20°	653.2	650.9	648.5	624.7	606.9	598.6	593.9	590.3	578.4	564.2	549.9
22.5°	655.6	658.0	655.6	627.1	612.9	603.4	602.2	598.6	589.1	576.0	561.8
25°	656.8	658.0	661.6	634.2	621.2	614.0	611.7	609.3	602.2	591.5	572.5
27.5°	662.7	663.9	663.9	639.0	631.9	627.1	624.7	624.7	621.2	608.1	589.1
30°	663.9	665.1	667.5	650.9	648.5	644.9	646.1	644.9	639.0	624.7	603.4
32.5°	672.2	673.4	679.4	658.0	660.4	663.9	665.1	663.9	652.1	640.2	622.4
35°	699.6	698.4	703.1	675.8	673.4	674.6	678.2	677.0	672.2	661.6	649.7
37.5°	787.5	787.5	774.4	717.4	699.6	697.2	699.6	705.5	706.7	697.2	687.7
40°	941.9	933.5	926.4	802.9	745.9	731.6	738.8	742.3	751.8	751.8	751.8
42.5°	1101.0	1102.2	1099.8	935.9	829.0	793.4	794.6	802.9	823.1	826.6	837.3
45°	1242.3	1250.7	1268.5	1090.3	951.4	871.8	863.5	871.8	900.3	924.0	951.4
47.5°	1352.8	1343.3	1382.5	1251.8	1091.5	978.7	957.3	959.7	998.9	1036.9	1079.6
50°	1447.8	1450.2	1468.0	1416.9	1268.5	1099.8	1071.3	1066.6	1122.4	1162.8	1235.2
52.5°	1554.7	1547.6	1573.7	1561.8	1440.7	1248.3	1203.1	1188.9	1249.5	1306.5	1384.9
55°	1605.8	1612.9	1666.4	1696.0	1603.4	1381.3	1331.4	1336.2	1400.3	1460.9	1570.1
57.5°	1696.0	1703.2	1764.9	1826.7	1748.3	1522.6	1478.7	1478.7	1551.1	1618.8	1787.5
60°	1819.6	1820.8	1883.7	1990.6	1875.4	1659.2	1630.7	1629.5	1707.9	1786.3	2044.0
62.5°	1874.2	1888.5	1982.3	2121.2	2041.7	1826.7	1793.4	1802.9	1873.0	1964.5	2330.3
65°	1800.6	1831.4	2027.4	2209.1	2190.1	2001.3	1988.2	2001.3	2044.0	2142.6	2633.1
67.5°	1557.1	1598.7	1944.3	2268.5	2308.9	2203.2	2184.2	2181.8	2209.1	2319.6	2824.4
70°	1431.2	1456.1	1724.6	2291.1	2403.9	2407.5	2407.5	2392.0	2388.5	2469.2	2842.2
72.5°	1178.2	1204.3	1454.9	2165.2	2494.2	2680.7	2708.0	2651.0	2563.1	2546.4	2544.1
75°	839.7	858.7	1074.9	1703.2	2379.0	2943.1	2997.8	2887.3	2642.6	2377.8	1855.2
76°	585.5	612.9	839.7	1454.9	2234.1	2947.9	3033.4	2905.1	2589.2	2232.9	1528.6
77.5°	296.9	306.4	485.8	977.5	1869.5	2812.5	2895.6	2751.9	2356.4	1804.1	970.4
80°	112.8	116.4	173.4	356.3	1026.2	2184.2	2216.3	2022.7	1559.5	770.8	349.2
82.5°	59.4	61.8	97.4	175.8	421.6	1200.8	1355.2	1128.3	611.7	231.6	102.1
85°	29.7	32.1	57.0	106.9	209.0	375.3	434.7	410.9	203.1	87.9	38.0
87.5°	11.9	14.3	28.5	47.5	84.3	73.6	82.0	105.7	65.3	41.6	13.1
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°	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5	528.5
2.5°	526.2	525.0	526.2	525.0	526.2	526.2	527.3	525.0	525.0	527.3	523.8
5°	517.8	516.7	517.8	520.2	521.4	523.8	528.5	527.3	529.7	532.1	533.3
7.5°	514.3	513.1	516.7	517.8	521.4	526.2	533.3	538.0	540.4	545.2	542.8
10°	517.8	517.8	522.6	526.2	532.1	538.0	544.0	548.7	554.7	558.2	557.0
12.5°	523.8	522.6	530.9	535.7	544.0	549.9	554.7	557.0	561.8	566.5	565.3
15°	529.7	530.9	542.8	552.3	561.8	564.2	565.3	563.0	565.3	567.7	567.7
17.5°	541.6	542.8	555.8	566.5	574.9	572.5	566.5	560.6	560.6	561.8	563.0
20°	551.1	553.5	568.9	578.4	583.2	573.7	564.2	557.0	553.5	554.7	553.5
22.5°	561.8	566.5	582.0	586.7	579.6	567.7	555.8	546.3	546.3	547.5	547.5
25°	574.9	577.2	587.9	585.5	572.5	554.7	545.2	541.6	540.4	541.6	542.8
27.5°	586.7	587.9	593.9	577.2	552.3	533.3	529.7	530.9	532.1	533.3	534.5
30°	602.2	604.5	598.6	565.3	527.3	506.0	506.0	513.1	515.5	519.0	517.8
32.5°	621.2	623.5	605.7	549.9	495.3	473.9	475.1	485.8	492.9	495.3	496.5
35°	653.2	648.5	610.5	528.5	460.8	434.7	435.9	449.0	458.5	462.0	459.6
37.5°	692.4	691.2	617.6	501.2	418.1	394.3	395.5	401.4	410.9	412.1	413.3
40°	757.8	748.3	629.5	465.6	375.3	352.7	350.4	353.9	352.7	355.1	356.3
42.5°	851.6	826.6	644.9	425.2	337.3	313.6	311.2	305.2	298.1	291.0	287.4
45°	962.0	922.8	663.9	383.6	298.1	276.7	270.8	263.7	249.4	234.0	229.2
47.5°	1104.6	1029.7	685.3	342.1	261.3	244.7	239.9	229.2	212.6	194.8	191.2
50°	1250.7	1155.6	706.7	307.6	231.6	222.1	217.4	206.7	185.3	168.7	165.1
52.5°	1420.5	1280.3	729.3	276.7	205.5	205.5	201.9	185.3	165.1	149.7	147.3
55°	1616.5	1408.6	764.9	247.0	186.5	191.2	186.5	169.8	150.8	140.1	139.0
57.5°	1850.4	1571.3	810.0	215.0	169.8	173.4	173.4	161.5	148.5	141.3	140.1
60°	2085.6	1736.4	838.5	191.2	156.8	160.3	167.5	161.5	153.2	149.7	148.5
62.5°	2311.3	1905.1	789.8	171.0	143.7	154.4	172.2	173.4	165.1	166.3	166.3
65°	2479.9	2033.4	639.0	153.2	135.4	158.0	186.5	187.7	173.4	169.8	168.7
67.5°	2538.1	2069.0	430.0	141.3	130.6	160.3	203.1	198.3	173.4	166.3	162.7
70°	2427.7	1938.3	279.1	130.6	123.5	158.0	216.2	204.3	172.2	161.5	156.8
72.5°	2035.7	1653.3	186.5	121.1	116.4	155.6	224.5	204.3	168.7	153.2	148.5
75°	1413.4	1129.5	139.0	109.3	105.7	152.0	226.9	200.7	160.3	143.7	140.1
76°	1134.3	846.8	125.9	104.5	101.0	149.7	225.7	197.2	154.4	139.0	135.4
77.5°	716.2	487.0	105.7	96.2	93.8	144.9	220.9	188.8	146.1	130.6	127.1
80°	250.6	178.2	80.8	78.4	79.6	134.2	207.8	172.2	129.5	115.2	110.5
82.5°	99.8	82.0	60.6	60.6	62.9	115.2	187.7	152.0	112.8	95.0	87.9
85°	39.2	35.6	42.8	42.8	45.1	93.8	156.8	118.8	77.2	59.4	57.0
87.5°	11.9	16.6	19.0	20.2	21.4	47.5	89.1	52.3	34.4	24.9	20.2
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)