

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: P594720

Luminaire Tested: **ISS-PA1D-735-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594720
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-PA1D-735-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7887 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

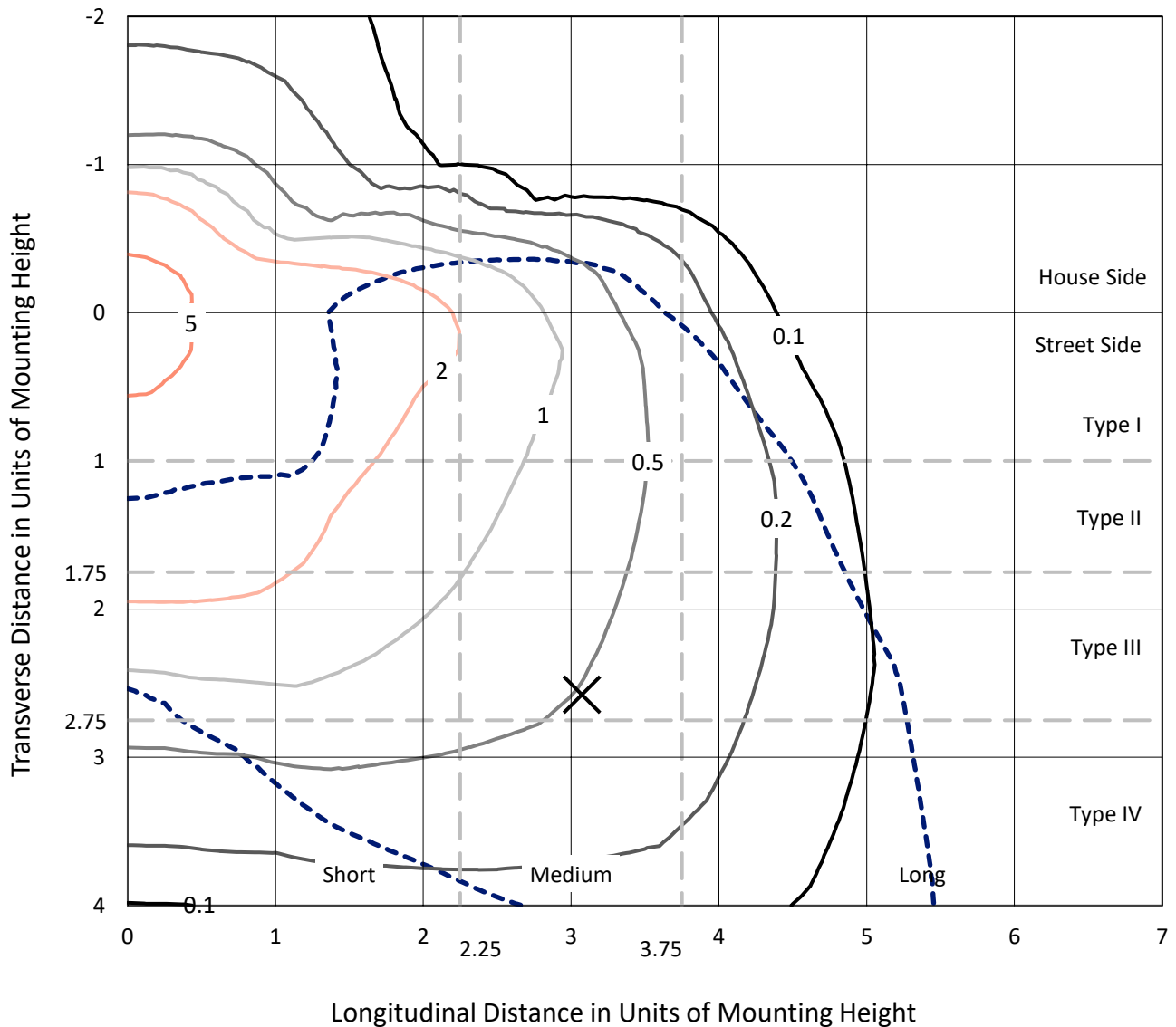
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P594720
 CATALOG NUMBER: ISS-PA1D-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

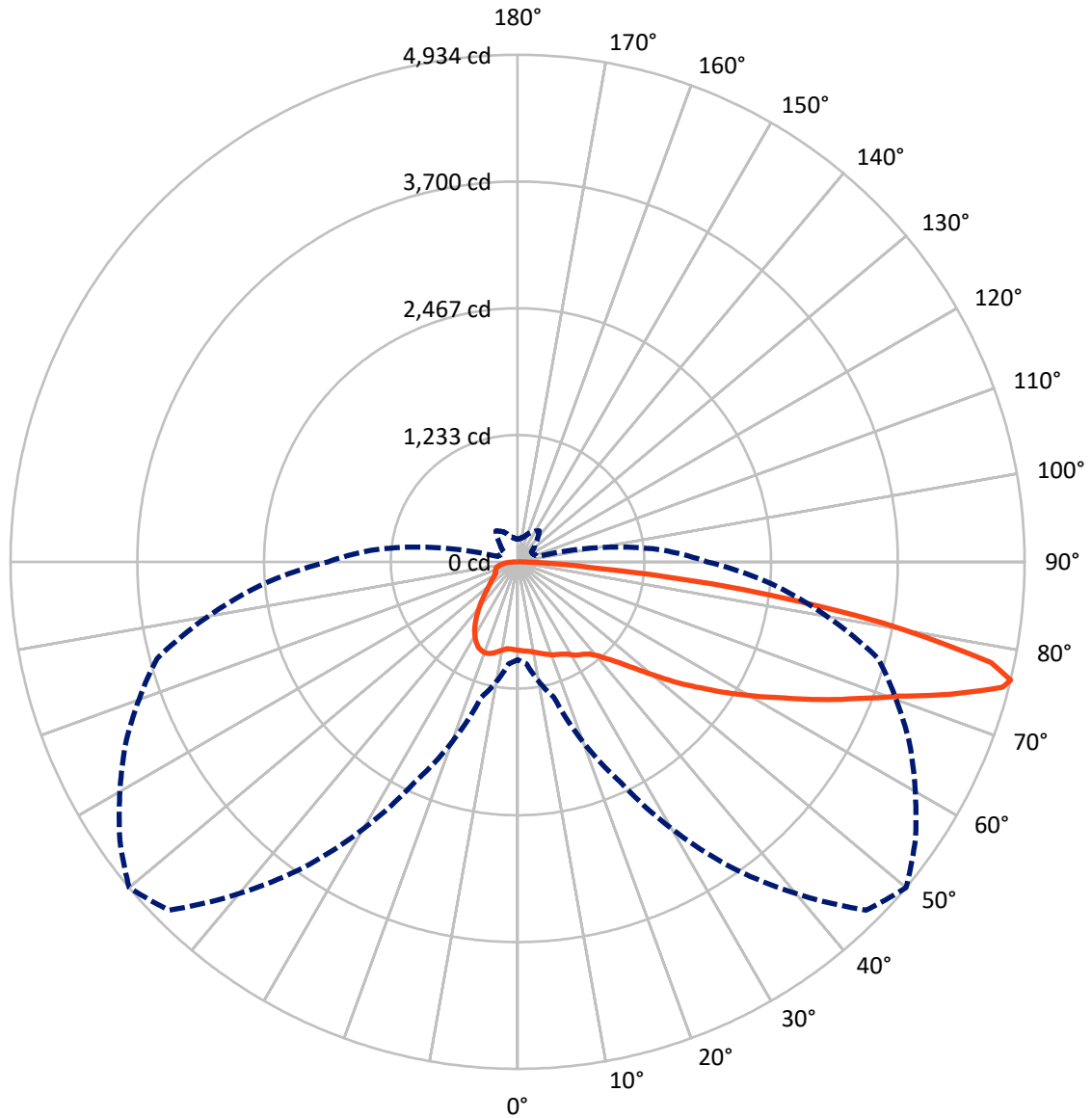
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P594720
CATALOG NUMBER: ISS-PA1D-735-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P594720
 CATALOG NUMBER: ISS-PA1D-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1804.2	0.0	1804.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6082.8	0.0	6082.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	7887.0	0.0	7887.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.1
10°-20°	262.4	3.3
20°-30°	443.3	5.6
30°-40°	607.7	7.7
40°-50°	895.0	11.3
50°-60°	1407.9	17.9
60°-70°	2026.5	25.7
70°-80°	1842.6	23.4
80°-90°	318.1	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°	7887.0	100.0
0°-180°	7887.0	100.0

Coefficient of Utilization

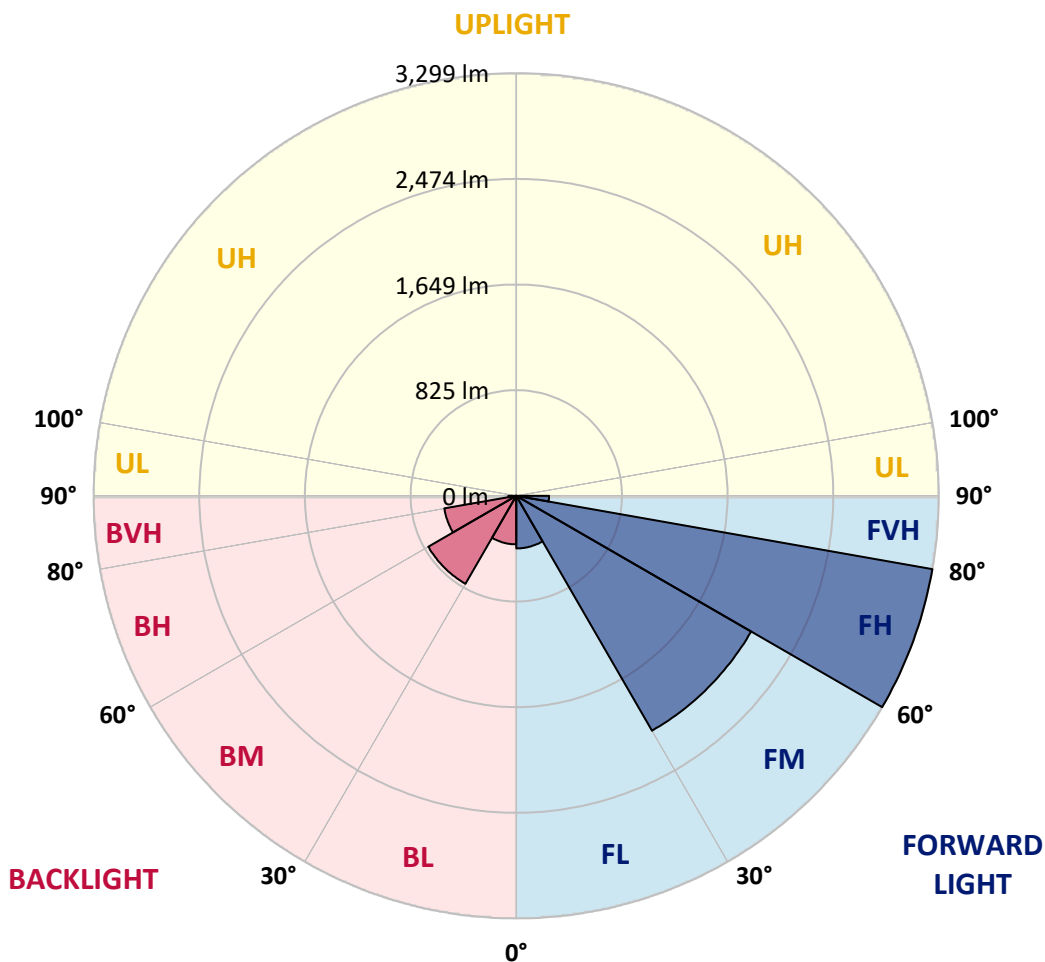


REPORT NUMBER: P594720
 CATALOG NUMBER: ISS-PA1D-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.5	5.2			
FM (30°-60°)	2117.5	26.8			
FH (60°-80°)	3298.7	41.8			G2/5000
FVH (80°-90°)	256.1	3.2			G3/500
BL (0°-30°)	378.8	4.8	B1/500		
BM (30°-60°)	793.0	10.1	B1/1000		
BH (60°-80°)	570.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	62.1	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-G3
 Type IV Medium





REPORT NUMBER: P594720
 CATALOG NUMBER: ISS-PA1D-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7
2.5°	879.0	879.0	880.9	877.1	877.1	867.4	867.4	865.5	861.6	859.7	855.8
5°	911.8	911.8	906.0	896.4	890.6	879.0	873.2	869.3	861.6	851.9	842.3
7.5°	946.6	942.7	938.9	923.4	911.8	890.6	880.9	875.1	859.7	846.1	840.3
10°	983.3	977.5	967.8	948.5	931.1	906.0	894.4	886.7	869.3	857.7	844.2
12.5°	1004.6	1004.6	993.0	969.8	946.6	915.7	909.9	900.2	882.8	867.4	853.9
15°	1025.8	1027.7	1016.1	989.1	962.1	938.9	929.2	923.4	904.1	880.9	863.5
17.5°	1047.1	1045.1	1033.5	1002.6	973.6	952.4	946.6	938.9	919.6	898.3	880.9
20°	1062.5	1058.6	1054.8	1016.1	987.2	973.6	965.9	960.1	940.8	917.6	894.4
22.5°	1066.4	1070.2	1066.4	1020.0	996.8	981.4	979.4	973.6	958.2	936.9	913.8
25°	1068.3	1070.2	1076.0	1031.6	1010.3	998.8	994.9	991.0	979.4	962.1	931.1
27.5°	1078.0	1079.9	1079.9	1039.3	1027.7	1020.0	1016.1	1016.1	1010.3	989.1	958.2
30°	1079.9	1081.8	1085.7	1058.6	1054.8	1049.0	1050.9	1049.0	1039.3	1016.1	981.4
32.5°	1093.4	1095.3	1105.0	1070.2	1074.1	1079.9	1081.8	1079.9	1060.6	1041.3	1012.3
35°	1137.8	1135.9	1143.6	1099.2	1095.3	1097.3	1103.1	1101.1	1093.4	1076.0	1056.7
37.5°	1280.8	1280.8	1259.6	1166.8	1137.8	1134.0	1137.8	1147.5	1149.4	1134.0	1118.5
40°	1531.9	1518.4	1506.8	1305.9	1213.2	1190.0	1201.6	1207.4	1222.8	1222.8	1222.8
42.5°	1790.8	1792.7	1788.9	1522.3	1348.4	1290.5	1292.4	1305.9	1338.8	1344.6	1361.9
45°	2020.7	2034.2	2063.2	1773.4	1547.4	1418.0	1404.4	1418.0	1464.3	1503.0	1547.4
47.5°	2200.4	2184.9	2248.7	2036.2	1775.4	1591.8	1557.1	1560.9	1624.7	1686.5	1756.0
50°	2354.9	2358.8	2387.7	2304.7	2063.2	1788.9	1742.5	1734.8	1825.6	1891.3	2009.1
52.5°	2528.8	2517.2	2559.7	2540.4	2343.3	2030.4	1956.9	1933.8	2032.3	2125.0	2252.5
55°	2611.8	2623.4	2710.4	2758.7	2608.0	2246.7	2165.6	2173.3	2277.6	2376.2	2553.9
57.5°	2758.7	2770.2	2870.7	2971.2	2843.7	2476.6	2405.1	2405.1	2523.0	2633.1	2907.4
60°	2959.6	2961.5	3063.9	3237.7	3050.4	2698.8	2652.4	2650.5	2778.0	2905.5	3324.7
62.5°	3048.4	3071.6	3224.2	3450.3	3320.8	2971.2	2917.1	2932.5	3046.5	3195.2	3790.3
65°	2928.7	2978.9	3297.6	3593.2	3562.3	3255.1	3233.9	3255.1	3324.7	3485.0	4282.9
67.5°	2532.6	2600.2	3162.4	3689.8	3755.5	3583.5	3552.6	3548.8	3593.2	3772.9	4593.9
70°	2327.9	2368.4	2805.0	3726.5	3910.0	3915.8	3915.8	3890.7	3884.9	4016.3	4622.9
72.5°	1916.4	1958.9	2366.5	3521.7	4056.8	4360.1	4404.6	4311.8	4168.9	4141.8	4138.0
75°	1365.8	1396.7	1748.3	2770.2	3869.5	4787.1	4875.9	4696.3	4298.3	3867.5	3017.5
76°	952.4	996.8	1365.8	2366.5	3633.8	4794.8	4933.9	4725.3	4211.4	3631.8	2486.3
77.5°	483.0	498.4	790.1	1589.9	3040.7	4574.6	4709.8	4476.1	3832.8	2934.5	1578.3
80°	183.5	189.3	282.0	579.5	1669.1	3552.6	3604.8	3289.9	2536.5	1253.8	568.0
82.5°	96.6	100.5	158.4	285.9	685.8	1953.1	2204.2	1835.2	994.9	376.7	166.1
85°	48.3	52.2	92.7	173.9	340.0	610.5	707.1	668.4	330.3	143.0	61.8
87.5°	19.3	23.2	46.4	77.3	137.2	119.8	133.3	171.9	106.3	67.6	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



REPORT NUMBER: P594720
 CATALOG NUMBER: ISS-PA1D-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7	859.7
2.5°	855.8	853.9	855.8	853.9	855.8	855.8	857.7	853.9	853.9	857.7	851.9
5°	842.3	840.3	842.3	846.1	848.1	851.9	859.7	857.7	861.6	865.5	867.4
7.5°	836.5	834.6	840.3	842.3	848.1	855.8	867.4	875.1	879.0	886.7	882.8
10°	842.3	842.3	850.0	855.8	865.5	875.1	884.8	892.5	902.2	908.0	906.0
12.5°	851.9	850.0	863.5	871.3	884.8	894.4	902.2	906.0	913.8	921.5	919.6
15°	861.6	863.5	882.8	898.3	913.8	917.6	919.6	915.7	919.6	923.4	923.4
17.5°	880.9	882.8	904.1	921.5	935.0	931.1	921.5	911.8	911.8	913.8	915.7
20°	896.4	900.2	925.3	940.8	948.5	933.1	917.6	906.0	900.2	902.2	900.2
22.5°	913.8	921.5	946.6	954.3	942.7	923.4	904.1	888.6	888.6	890.6	890.6
25°	935.0	938.9	956.3	952.4	931.1	902.2	886.7	880.9	879.0	880.9	882.8
27.5°	954.3	956.3	965.9	938.9	898.3	867.4	861.6	863.5	865.5	867.4	869.3
30°	979.4	983.3	973.6	919.6	857.7	823.0	823.0	834.6	838.4	844.2	842.3
32.5°	1010.3	1014.2	985.2	894.4	805.6	770.8	772.7	790.1	801.7	805.6	807.5
35°	1062.5	1054.8	993.0	859.7	749.6	707.1	709.0	730.2	745.7	751.5	747.6
37.5°	1126.3	1124.3	1004.6	815.2	680.0	641.4	643.3	653.0	668.4	670.3	672.3
40°	1232.5	1217.1	1023.9	757.3	610.5	573.8	569.9	575.7	573.8	577.6	579.5
42.5°	1385.1	1344.6	1049.0	691.6	548.6	510.0	506.1	496.5	484.9	473.3	467.5
45°	1564.8	1501.0	1079.9	624.0	484.9	450.1	440.5	428.9	405.7	380.6	372.8
47.5°	1796.6	1674.9	1114.7	556.4	425.0	398.0	390.2	372.8	345.8	316.8	311.0
50°	2034.2	1879.7	1149.4	500.3	376.7	361.3	353.5	336.1	301.4	274.3	268.5
52.5°	2310.5	2082.5	1186.1	450.1	334.2	334.2	328.4	301.4	268.5	243.4	239.5
55°	2629.2	2291.2	1244.1	401.8	303.3	311.0	303.3	276.3	245.3	228.0	226.0
57.5°	3009.8	2555.8	1317.5	349.7	276.3	282.0	282.0	262.7	241.5	229.9	228.0
60°	3392.3	2824.3	1363.9	311.0	255.0	260.8	272.4	262.7	249.2	243.4	241.5
62.5°	3759.3	3098.7	1284.7	278.2	233.8	251.1	280.1	282.0	268.5	270.5	270.5
65°	4033.7	3307.3	1039.3	249.2	220.2	256.9	303.3	305.2	282.0	276.3	274.3
67.5°	4128.3	3365.3	699.3	229.9	212.5	260.8	330.3	322.6	282.0	270.5	264.7
70°	3948.7	3152.7	454.0	212.5	200.9	256.9	351.6	332.3	280.1	262.7	255.0
72.5°	3311.2	2689.1	303.3	197.0	189.3	253.1	365.1	332.3	274.3	249.2	241.5
75°	2298.9	1837.2	226.0	177.7	171.9	247.3	369.0	326.5	260.8	233.8	228.0
76°	1844.9	1377.4	204.8	170.0	164.2	243.4	367.0	320.7	251.1	226.0	220.2
77.5°	1164.9	792.1	171.9	156.5	152.6	235.7	359.3	307.2	237.6	212.5	206.7
80°	407.6	289.8	131.4	127.5	129.4	218.3	338.1	280.1	210.6	187.4	179.7
82.5°	162.3	133.3	98.5	98.5	102.4	187.4	305.2	247.3	183.5	154.5	143.0
85°	63.8	58.0	69.5	69.5	73.4	152.6	255.0	193.2	125.6	96.6	92.7
87.5°	19.3	27.0	30.9	32.8	34.8	77.3	144.9	85.0	56.0	40.6	32.8
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)