

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: P594711

Luminaire Tested: **ISS-PA1D-730-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594711  
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-730-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 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: 7711 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

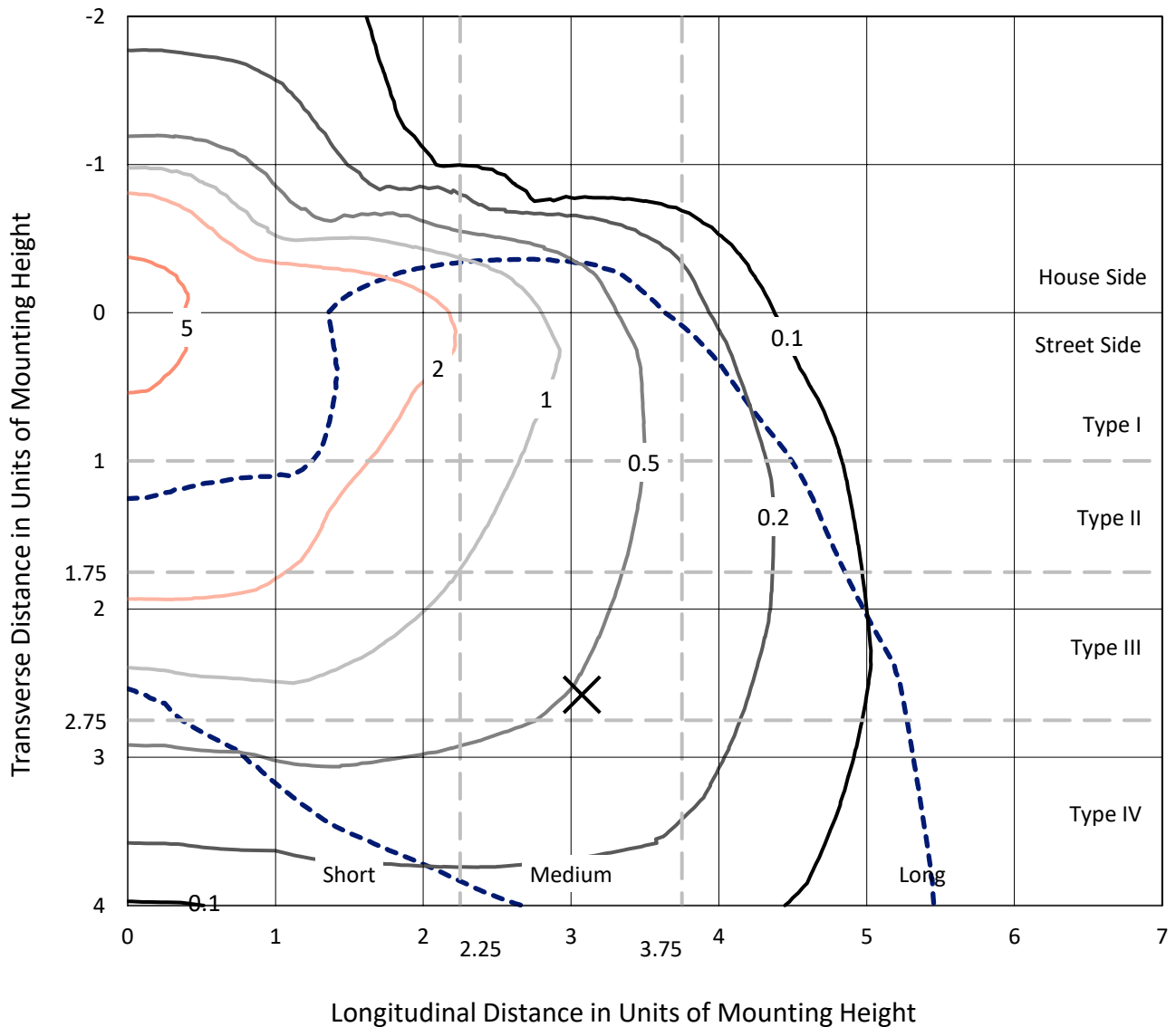
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

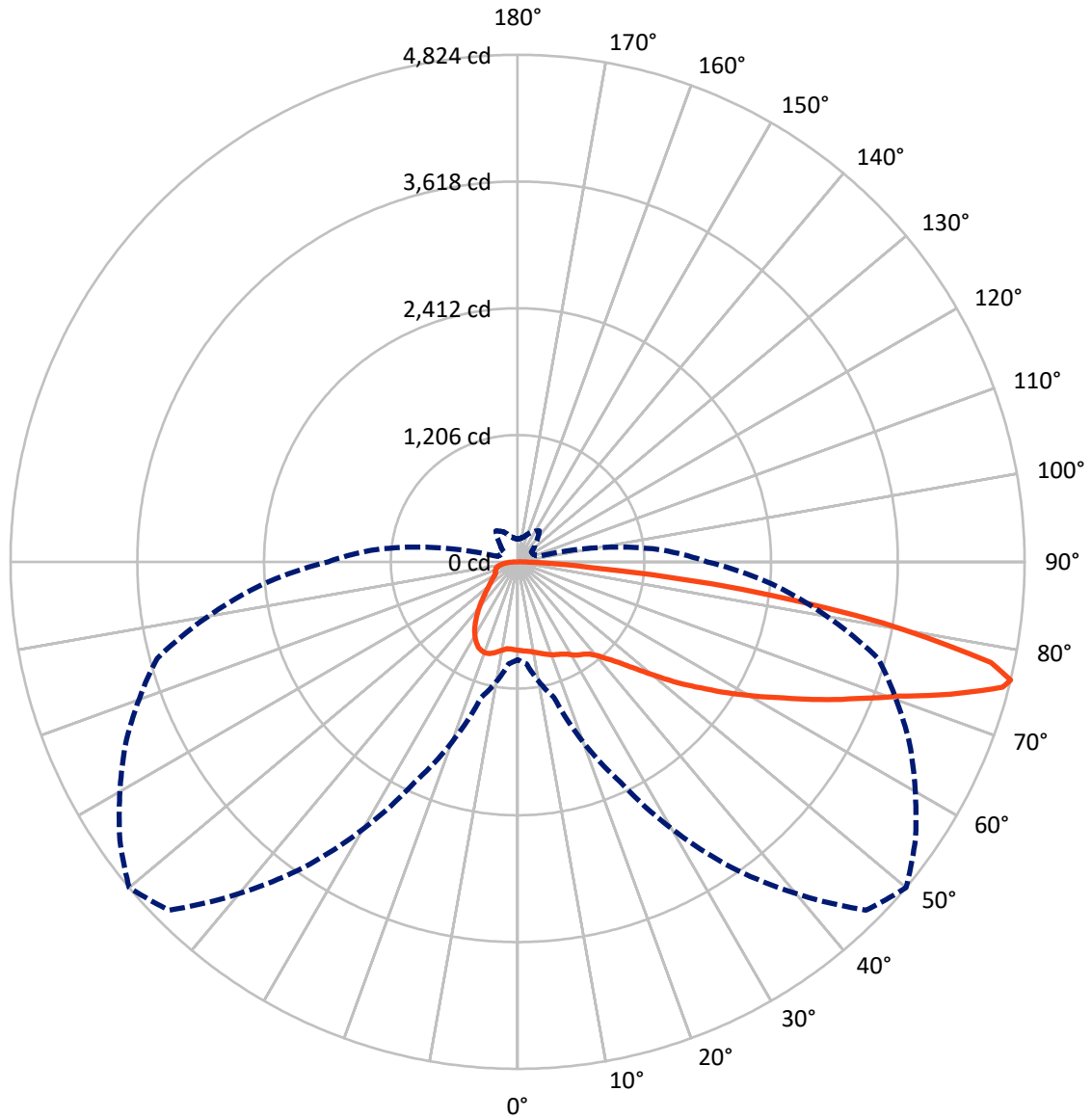
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.3 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
<b>House Side</b>	Lumens	1764.0	0.0	1764.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	5947.0	0.0	5947.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	7711.0	0.0	7711.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.6	1.1
10°-20°	256.6	3.3
20°-30°	433.4	5.6
30°-40°	594.1	7.7
40°-50°	875.0	11.3
50°-60°	1376.4	17.9
60°-70°	1981.3	25.7
70°-80°	1801.5	23.4
80°-90°	311.0	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°	7711.0	100.0
0°-180°	7711.0	100.0

**Coefficient of Utilization**



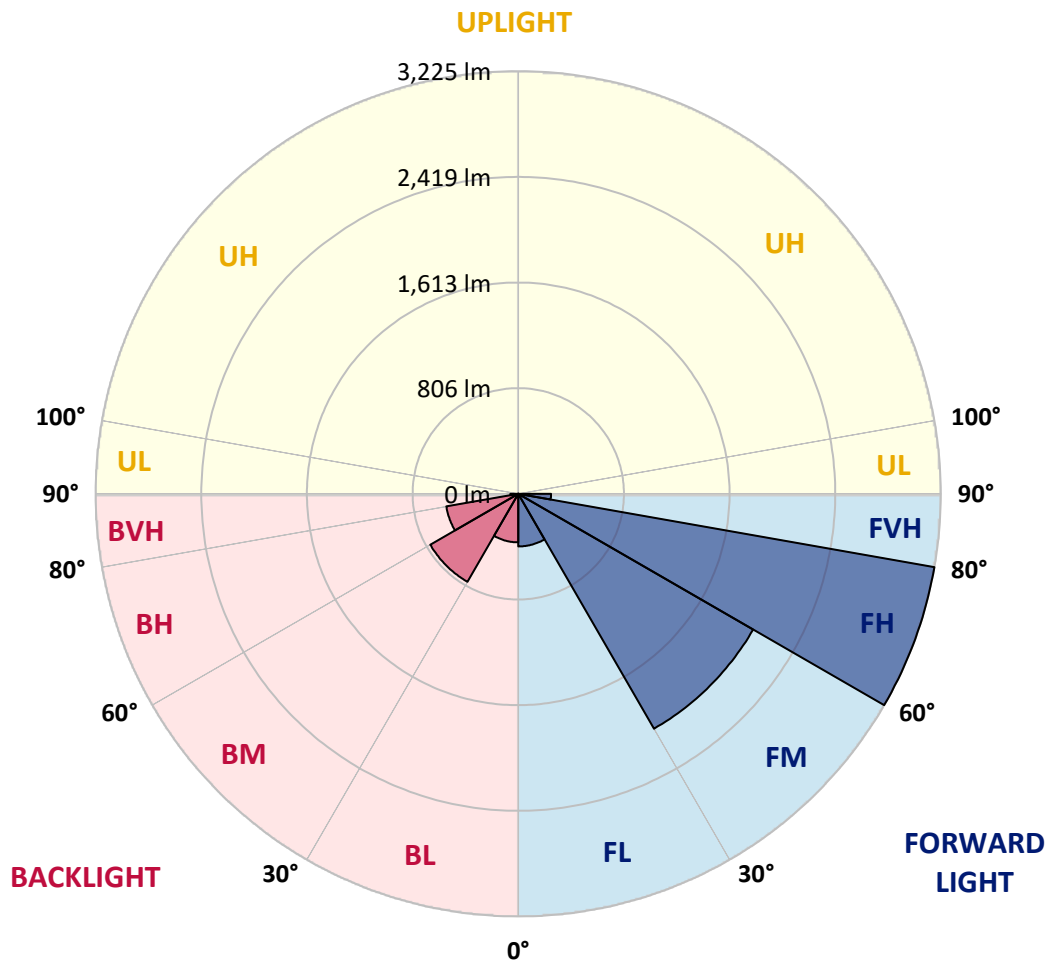
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	401.3	5.2			
FM (30°-60°)	2070.3	26.8			
FH (60°-80°)	3225.1	41.8			G2/5000
FVH (80°-90°)	250.3	3.2			G3/500
BL (0°-30°)	370.3	4.8	B1/500		
BM (30°-60°)	775.3	10.1	B1/1000		
BH (60°-80°)	557.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	60.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5
2.5°	859.4	859.4	861.3	857.5	857.5	848.0	848.0	846.1	842.4	840.5	836.7
5°	891.5	891.5	885.8	876.4	870.7	859.4	853.7	849.9	842.4	832.9	823.5
7.5°	925.5	921.7	917.9	902.8	891.5	870.7	861.3	855.6	840.5	827.3	821.6
10°	961.4	955.7	946.2	927.4	910.4	885.8	874.5	866.9	849.9	838.6	825.4
12.5°	982.1	982.1	970.8	948.1	925.5	895.3	889.6	880.1	863.1	848.0	834.8
15°	1002.9	1004.8	993.5	967.0	940.6	917.9	908.5	902.8	883.9	861.3	844.3
17.5°	1023.7	1021.8	1010.5	980.2	951.9	931.1	925.5	917.9	899.0	878.3	861.3
20°	1038.8	1035.0	1031.2	993.5	965.1	951.9	944.4	938.7	919.8	897.1	874.5
22.5°	1042.6	1046.4	1042.6	997.2	974.6	959.5	957.6	951.9	936.8	916.0	893.4
25°	1044.5	1046.4	1052.0	1008.6	987.8	976.5	972.7	968.9	957.6	940.6	910.4
27.5°	1053.9	1055.8	1055.8	1016.1	1004.8	997.2	993.5	993.5	987.8	967.0	936.8
30°	1055.8	1057.7	1061.5	1035.0	1031.2	1025.6	1027.5	1025.6	1016.1	993.5	959.5
32.5°	1069.0	1070.9	1080.3	1046.4	1050.1	1055.8	1057.7	1055.8	1036.9	1018.0	989.7
35°	1112.5	1110.6	1118.1	1074.7	1070.9	1072.8	1078.5	1076.6	1069.0	1052.0	1033.1
37.5°	1252.2	1252.2	1231.4	1140.8	1112.5	1108.7	1112.5	1121.9	1123.8	1108.7	1093.6
40°	1497.8	1484.5	1473.2	1276.8	1186.1	1163.5	1174.8	1180.5	1195.6	1195.6	1195.6
42.5°	1750.8	1752.7	1749.0	1488.3	1318.3	1261.7	1263.6	1276.8	1308.9	1314.6	1331.5
45°	1975.6	1988.8	2017.2	1733.8	1512.9	1386.3	1373.1	1386.3	1431.7	1469.4	1512.9
47.5°	2151.3	2136.1	2198.5	1990.7	1735.7	1556.3	1522.3	1526.1	1588.4	1648.9	1716.8
50°	2302.4	2306.1	2334.5	2253.2	2017.2	1749.0	1703.6	1696.1	1784.8	1849.1	1964.3
52.5°	2472.3	2461.0	2502.6	2483.7	2291.0	1985.0	1913.3	1890.6	1986.9	2077.6	2202.3
55°	2553.6	2564.9	2649.9	2697.1	2549.8	2196.6	2117.3	2124.8	2226.8	2323.1	2496.9
57.5°	2697.1	2708.4	2806.6	2904.9	2780.2	2421.3	2351.5	2351.5	2466.7	2574.3	2842.5
60°	2893.5	2895.4	2995.5	3165.5	2982.3	2638.5	2593.2	2591.3	2716.0	2840.6	3250.5
62.5°	2980.4	3003.1	3152.3	3373.3	3246.7	2904.9	2852.0	2867.1	2978.5	3123.9	3705.7
65°	2863.3	2912.4	3224.0	3513.0	3482.8	3182.5	3161.7	3182.5	3250.5	3407.3	4187.3
67.5°	2476.1	2542.2	3091.8	3607.5	3671.7	3503.6	3473.4	3469.6	3513.0	3688.7	4491.4
70°	2275.9	2315.6	2742.4	3643.3	3822.8	3828.4	3828.4	3803.9	3798.2	3926.7	4519.7
72.5°	1873.6	1915.2	2313.7	3443.1	3966.3	4262.8	4306.3	4215.6	4075.9	4049.4	4045.6
75°	1335.3	1365.5	1709.3	2708.4	3783.1	4680.3	4767.1	4591.5	4202.4	3781.2	2950.2
76°	931.1	974.6	1335.3	2313.7	3552.7	4687.8	4823.8	4619.8	4117.4	3550.8	2430.8
77.5°	472.2	487.3	772.5	1554.4	2972.8	4472.5	4604.7	4376.2	3747.2	2869.0	1543.1
80°	179.4	185.1	275.8	566.6	1631.9	3473.4	3524.4	3216.5	2479.9	1225.8	555.3
82.5°	94.4	98.2	154.9	279.5	670.5	1909.5	2155.0	1794.3	972.7	368.3	162.4
85°	47.2	51.0	90.7	170.0	332.4	596.8	691.3	653.5	323.0	139.8	60.4
87.5°	18.9	22.7	45.3	75.5	134.1	117.1	130.3	168.1	103.9	66.1	20.8
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°	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5	840.5
2.5°	836.7	834.8	836.7	834.8	836.7	836.7	838.6	834.8	834.8	838.6	832.9
5°	823.5	821.6	823.5	827.3	829.1	832.9	840.5	838.6	842.4	846.1	848.0
7.5°	817.8	815.9	821.6	823.5	829.1	836.7	848.0	855.6	859.4	866.9	863.1
10°	823.5	823.5	831.0	836.7	846.1	855.6	865.0	872.6	882.0	887.7	885.8
12.5°	832.9	831.0	844.3	851.8	865.0	874.5	882.0	885.8	893.4	900.9	899.0
15°	842.4	844.3	863.1	878.3	893.4	897.1	899.0	895.3	899.0	902.8	902.8
17.5°	861.3	863.1	883.9	900.9	914.1	910.4	900.9	891.5	891.5	893.4	895.3
20°	876.4	880.1	904.7	919.8	927.4	912.3	897.1	885.8	880.1	882.0	880.1
22.5°	893.4	900.9	925.5	933.0	921.7	902.8	883.9	868.8	868.8	870.7	870.7
25°	914.1	917.9	934.9	931.1	910.4	882.0	866.9	861.3	859.4	861.3	863.1
27.5°	933.0	934.9	944.4	917.9	878.3	848.0	842.4	844.3	846.1	848.0	849.9
30°	957.6	961.4	951.9	899.0	838.6	804.6	804.6	815.9	819.7	825.4	823.5
32.5°	987.8	991.6	963.2	874.5	787.6	753.6	755.5	772.5	783.8	787.6	789.5
35°	1038.8	1031.2	970.8	840.5	732.8	691.3	693.2	713.9	729.0	734.7	730.9
37.5°	1101.1	1099.2	982.1	797.0	664.8	627.1	628.9	638.4	653.5	655.4	657.3
40°	1205.0	1189.9	1001.0	740.4	596.8	561.0	557.2	562.8	561.0	564.7	566.6
42.5°	1354.2	1314.6	1025.6	676.2	536.4	498.6	494.8	485.4	474.1	462.7	457.1
45°	1529.9	1467.5	1055.8	610.1	474.1	440.1	430.6	419.3	396.6	372.1	364.5
47.5°	1756.5	1637.5	1089.8	544.0	415.5	389.1	381.5	364.5	338.1	309.8	304.1
50°	1988.8	1837.7	1123.8	489.2	368.3	353.2	345.6	328.6	294.6	268.2	262.5
52.5°	2258.9	2036.0	1159.7	440.1	326.7	326.7	321.1	294.6	262.5	238.0	234.2
55°	2570.6	2240.0	1216.3	392.9	296.5	304.1	296.5	270.1	239.9	222.9	221.0
57.5°	2942.6	2498.8	1288.1	341.9	270.1	275.8	275.8	256.9	236.1	224.8	222.9
60°	3316.6	2761.3	1333.4	304.1	249.3	255.0	266.3	256.9	243.6	238.0	236.1
62.5°	3675.5	3029.5	1256.0	272.0	228.5	245.5	273.9	275.8	262.5	264.4	264.4
65°	3943.7	3233.5	1016.1	243.6	215.3	251.2	296.5	298.4	275.8	270.1	268.2
67.5°	4036.2	3290.2	683.7	224.8	207.8	255.0	323.0	315.4	275.8	264.4	258.8
70°	3860.5	3082.4	443.8	207.8	196.4	251.2	343.7	324.9	273.9	256.9	249.3
72.5°	3237.3	2629.1	296.5	192.6	185.1	247.4	357.0	324.9	268.2	243.6	236.1
75°	2247.6	1796.2	221.0	173.8	168.1	241.8	360.7	319.2	255.0	228.5	222.9
76°	1803.7	1346.7	200.2	166.2	160.5	238.0	358.9	313.5	245.5	221.0	215.3
77.5°	1138.9	774.4	168.1	153.0	149.2	230.4	351.3	300.3	232.3	207.8	202.1
80°	398.5	283.3	128.4	124.7	126.5	213.4	330.5	273.9	205.9	183.2	175.7
82.5°	158.7	130.3	96.3	96.3	100.1	183.2	298.4	241.8	179.4	151.1	139.8
85°	62.3	56.7	68.0	68.0	71.8	149.2	249.3	188.9	122.8	94.4	90.7
87.5°	18.9	26.4	30.2	32.1	34.0	75.5	141.7	83.1	54.8	39.7	32.1
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)