

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: P595179

Luminaire Tested: **IST-PA1C-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595179  
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: IST-PA1C-830-U-T4W  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5263 lumens  
Efficiency: N/A  
Efficacy: 109.0 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

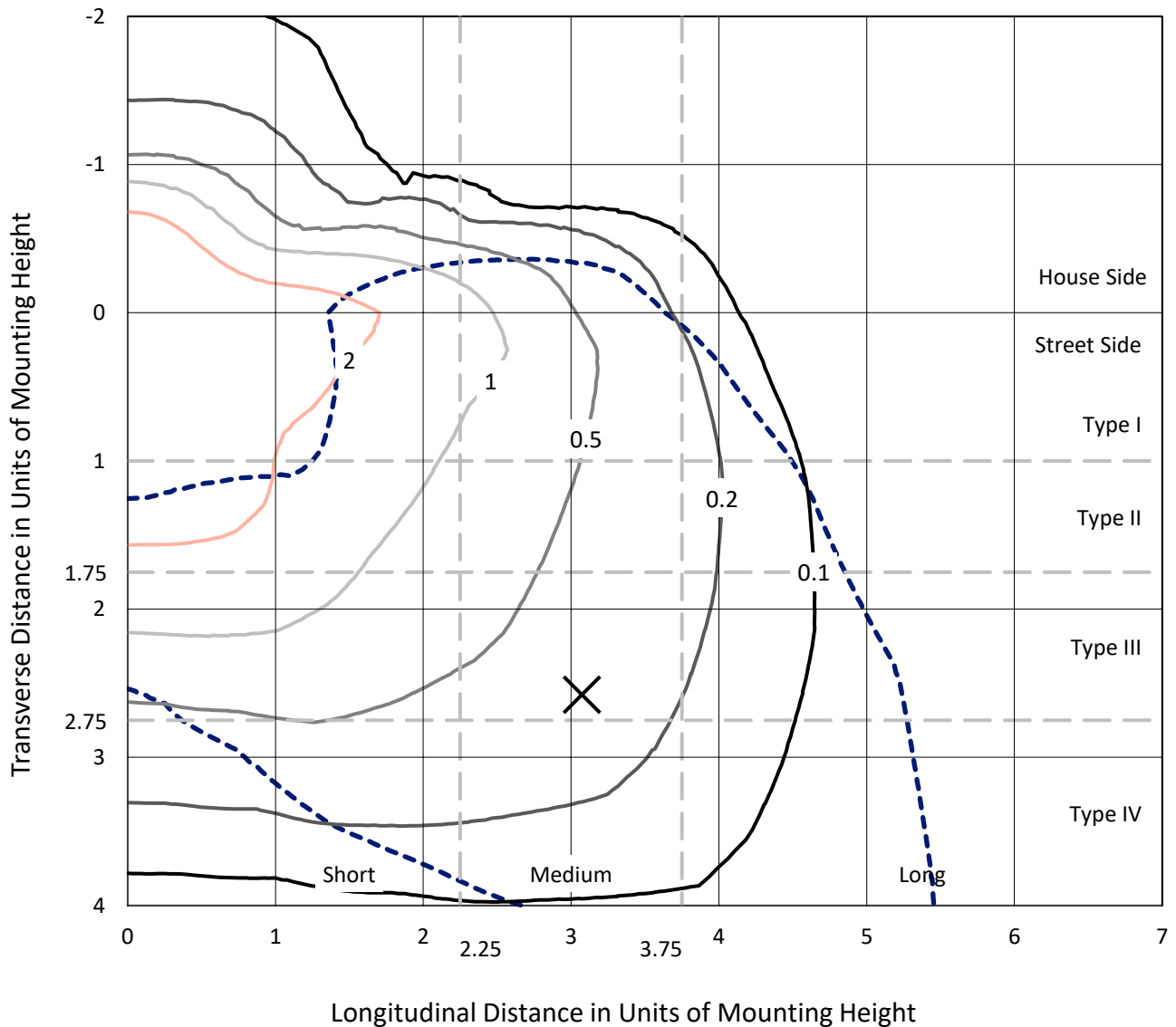
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

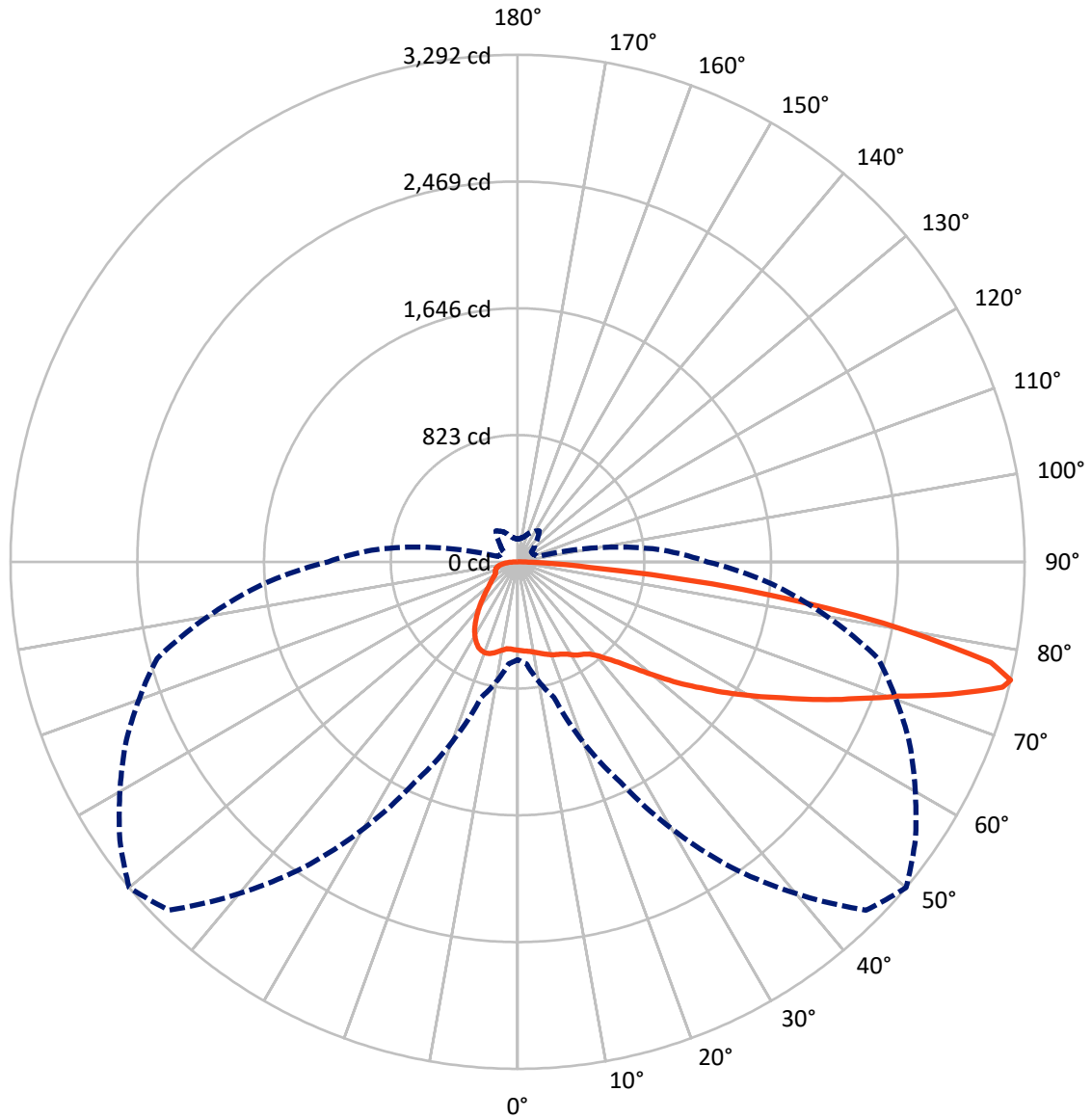
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.3 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	1204.0	0.0	1204.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4059.0	0.0	4059.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5263.0	0.0	5263.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.7	1.1
10°-20°	175.1	3.3
20°-30°	295.8	5.6
30°-40°	405.5	7.7
40°-50°	597.2	11.3
50°-60°	939.5	17.9
60°-70°	1352.3	25.7
70°-80°	1229.6	23.4
80°-90°	212.3	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°	5263.0	100.0
0°-180°	5263.0	100.0

**Coefficient of Utilization**

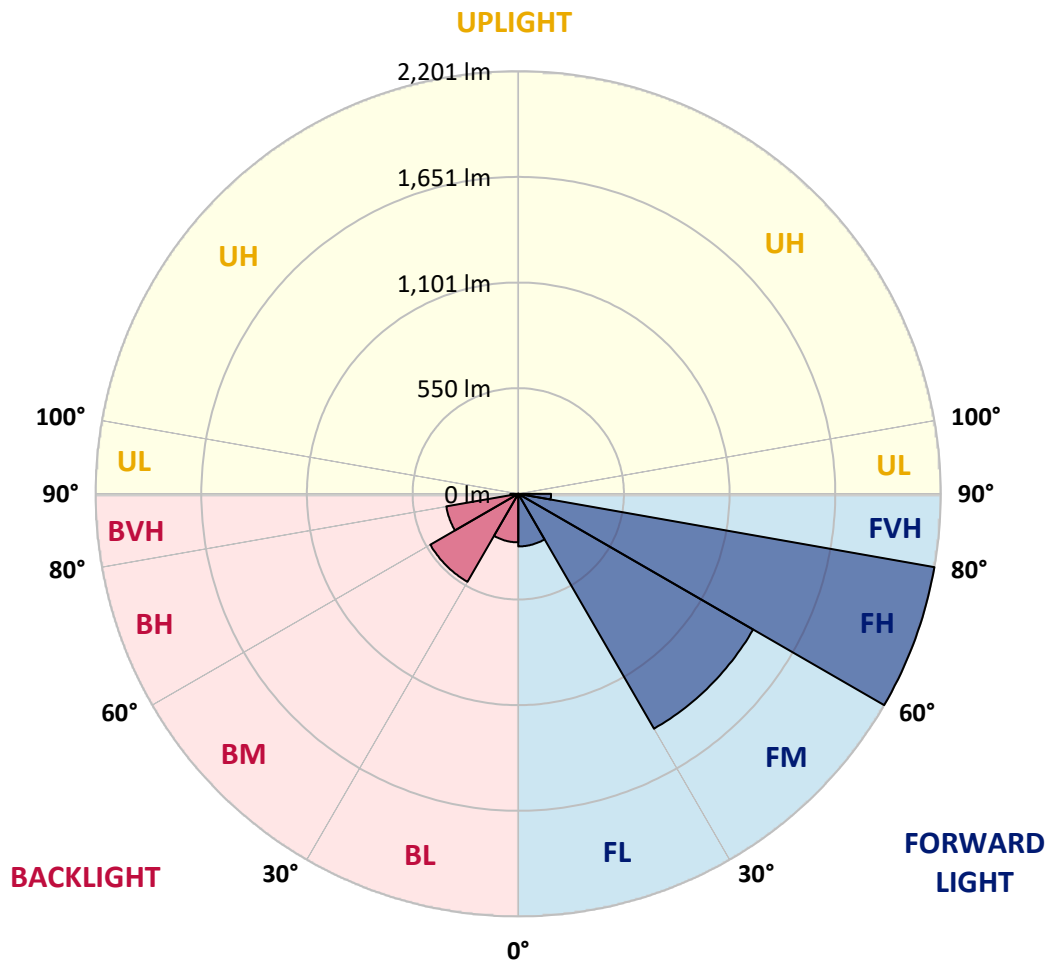


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	273.9	5.2			
FM (30°-60°)	1413.0	26.8			
FH (60°-80°)	2201.2	41.8			G2/5000
FVH (80°-90°)	170.9	3.2			G2/225
BL (0°-30°)	252.7	4.8	B1/500		
BM (30°-60°)	529.2	10.1	B1/1000		
BH (60°-80°)	380.6	7.2	B1/500		G1/500
BVH (80°-90°)	41.4	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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	586.5	586.5	587.8	585.3	585.3	578.8	578.8	577.5	574.9	573.7	571.1
5°	608.5	608.5	604.6	598.1	594.3	586.5	582.7	580.1	574.9	568.5	562.1
7.5°	631.7	629.1	626.5	616.2	608.5	594.3	587.8	584.0	573.7	564.6	560.8
10°	656.2	652.3	645.8	633.0	621.4	604.6	596.9	591.7	580.1	572.4	563.3
12.5°	670.3	670.3	662.6	647.1	631.7	611.0	607.2	600.7	589.1	578.8	569.8
15°	684.5	685.8	678.1	660.0	642.0	626.5	620.1	616.2	603.3	587.8	576.2
17.5°	698.7	697.4	689.7	669.0	649.7	635.5	631.7	626.5	613.6	599.4	587.8
20°	709.0	706.4	703.9	678.1	658.7	649.7	644.6	640.7	627.8	612.3	596.9
22.5°	711.6	714.2	711.6	680.7	665.2	654.9	653.6	649.7	639.4	625.2	609.8
25°	712.9	714.2	718.0	688.4	674.2	666.5	663.9	661.3	653.6	642.0	621.4
27.5°	719.3	720.6	720.6	693.5	685.8	680.7	678.1	678.1	674.2	660.0	639.4
30°	720.6	721.9	724.5	706.4	703.9	700.0	701.3	700.0	693.5	678.1	654.9
32.5°	729.6	730.9	737.4	714.2	716.7	720.6	721.9	720.6	707.7	694.8	675.5
35°	759.3	758.0	763.2	733.5	730.9	732.2	736.1	734.8	729.6	718.0	705.1
37.5°	854.7	854.7	840.5	778.6	759.3	756.7	759.3	765.7	767.0	756.7	746.4
40°	1022.3	1013.2	1005.5	871.4	809.6	794.1	801.8	805.7	816.0	816.0	816.0
42.5°	1195.0	1196.3	1193.7	1015.8	899.8	861.1	862.4	871.4	893.4	897.2	908.8
45°	1348.4	1357.4	1376.8	1183.4	1032.6	946.2	937.2	946.2	977.1	1002.9	1032.6
47.5°	1468.3	1458.0	1500.5	1358.7	1184.7	1062.2	1039.0	1041.6	1084.1	1125.4	1171.8
50°	1571.4	1574.0	1593.3	1537.9	1376.8	1193.7	1162.8	1157.6	1218.2	1262.0	1340.7
52.5°	1687.4	1679.7	1708.1	1695.2	1563.7	1354.9	1305.9	1290.4	1356.1	1418.0	1503.1
55°	1742.9	1750.6	1808.6	1840.9	1740.3	1499.2	1445.1	1450.3	1519.9	1585.6	1704.2
57.5°	1840.9	1848.6	1915.6	1982.7	1897.6	1652.6	1604.9	1604.9	1683.6	1757.1	1940.1
60°	1974.9	1976.2	2044.5	2160.6	2035.5	1800.9	1770.0	1768.7	1853.7	1938.8	2218.6
62.5°	2034.2	2049.7	2151.5	2302.4	2216.0	1982.7	1946.6	1956.9	2032.9	2132.2	2529.2
65°	1954.3	1987.8	2200.5	2397.7	2377.1	2172.2	2158.0	2172.2	2218.6	2325.6	2858.0
67.5°	1690.0	1735.1	2110.3	2462.2	2506.0	2391.3	2370.7	2368.1	2397.7	2517.6	3065.5
70°	1553.4	1580.5	1871.8	2486.7	2609.2	2613.0	2613.0	2596.3	2592.4	2680.1	3084.8
72.5°	1278.8	1307.2	1579.2	2350.1	2707.1	2909.5	2939.2	2877.3	2781.9	2763.9	2761.3
75°	911.4	932.0	1166.6	1848.6	2582.1	3194.4	3253.7	3133.8	2868.3	2580.8	2013.6
76°	635.5	665.2	911.4	1579.2	2424.8	3199.6	3292.4	3153.2	2810.3	2423.5	1659.1
77.5°	322.3	332.6	527.2	1060.9	2029.1	3052.6	3142.9	2986.9	2557.6	1958.2	1053.2
80°	122.5	126.3	188.2	386.7	1113.8	2370.7	2405.5	2195.4	1692.6	836.6	379.0
82.5°	64.5	67.0	105.7	190.8	457.6	1303.3	1470.9	1224.7	663.9	251.4	110.9
85°	32.2	34.8	61.9	116.0	226.9	407.4	471.8	446.0	220.4	95.4	41.3
87.5°	12.9	15.5	30.9	51.6	91.5	79.9	88.9	114.7	70.9	45.1	14.2
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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	571.1	569.8	571.1	569.8	571.1	571.1	572.4	569.8	569.8	572.4	568.5
5°	562.1	560.8	562.1	564.6	565.9	568.5	573.7	572.4	574.9	577.5	578.8
7.5°	558.2	556.9	560.8	562.1	565.9	571.1	578.8	584.0	586.5	591.7	589.1
10°	562.1	562.1	567.2	571.1	577.5	584.0	590.4	595.6	602.0	605.9	604.6
12.5°	568.5	567.2	576.2	581.4	590.4	596.9	602.0	604.6	609.8	614.9	613.6
15°	574.9	576.2	589.1	599.4	609.8	612.3	613.6	611.0	613.6	616.2	616.2
17.5°	587.8	589.1	603.3	614.9	623.9	621.4	614.9	608.5	608.5	609.8	611.0
20°	598.1	600.7	617.5	627.8	633.0	622.6	612.3	604.6	600.7	602.0	600.7
22.5°	609.8	614.9	631.7	636.8	629.1	616.2	603.3	593.0	593.0	594.3	594.3
25°	623.9	626.5	638.1	635.5	621.4	602.0	591.7	587.8	586.5	587.8	589.1
27.5°	636.8	638.1	644.6	626.5	599.4	578.8	574.9	576.2	577.5	578.8	580.1
30°	653.6	656.2	649.7	613.6	572.4	549.2	549.2	556.9	559.5	563.3	562.1
32.5°	674.2	676.8	657.4	596.9	537.6	514.4	515.6	527.2	535.0	537.6	538.8
35°	709.0	703.9	662.6	573.7	500.2	471.8	473.1	487.3	497.6	501.5	498.9
37.5°	751.6	750.3	670.3	544.0	453.8	428.0	429.3	435.7	446.0	447.3	448.6
40°	822.5	812.1	683.2	505.3	407.4	382.9	380.3	384.2	382.9	385.4	386.7
42.5°	924.3	897.2	700.0	461.5	366.1	340.3	337.7	331.3	323.6	315.8	312.0
45°	1044.2	1001.6	720.6	416.4	323.6	300.4	293.9	286.2	270.7	254.0	248.8
47.5°	1198.9	1117.7	743.8	371.3	283.6	265.6	260.4	248.8	230.8	211.4	207.5
50°	1357.4	1254.3	767.0	333.9	251.4	241.1	235.9	224.3	201.1	183.1	179.2
52.5°	1541.8	1389.7	791.5	300.4	223.0	223.0	219.1	201.1	179.2	162.4	159.8
55°	1754.5	1528.9	830.2	268.1	202.4	207.5	202.4	184.3	163.7	152.1	150.8
57.5°	2008.4	1705.5	879.2	233.3	184.3	188.2	188.2	175.3	161.1	153.4	152.1
60°	2263.7	1884.7	910.1	207.5	170.2	174.0	181.8	175.3	166.3	162.4	161.1
62.5°	2508.6	2067.7	857.3	185.6	156.0	167.6	186.9	188.2	179.2	180.5	180.5
65°	2691.7	2207.0	693.5	166.3	147.0	171.5	202.4	203.7	188.2	184.3	183.1
67.5°	2754.8	2245.6	466.7	153.4	141.8	174.0	220.4	215.3	188.2	180.5	176.6
70°	2634.9	2103.8	302.9	141.8	134.1	171.5	234.6	221.7	186.9	175.3	170.2
72.5°	2209.5	1794.4	202.4	131.5	126.3	168.9	243.6	221.7	183.1	166.3	161.1
75°	1534.0	1225.9	150.8	118.6	114.7	165.0	246.2	217.9	174.0	156.0	152.1
76°	1231.1	919.1	136.6	113.4	109.6	162.4	244.9	214.0	167.6	150.8	147.0
77.5°	777.3	528.5	114.7	104.4	101.8	157.3	239.8	205.0	158.6	141.8	137.9
80°	272.0	193.4	87.7	85.1	86.4	145.7	225.6	186.9	140.5	125.0	119.9
82.5°	108.3	88.9	65.7	65.7	68.3	125.0	203.7	165.0	122.5	103.1	95.4
85°	42.5	38.7	46.4	46.4	49.0	101.8	170.2	128.9	83.8	64.5	61.9
87.5°	12.9	18.0	20.6	21.9	23.2	51.6	96.7	56.7	37.4	27.1	21.9
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)