

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: INVUE

Report Number: P672152

Luminaire Tested: **CCP-SA-2D-827-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672152  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-827-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

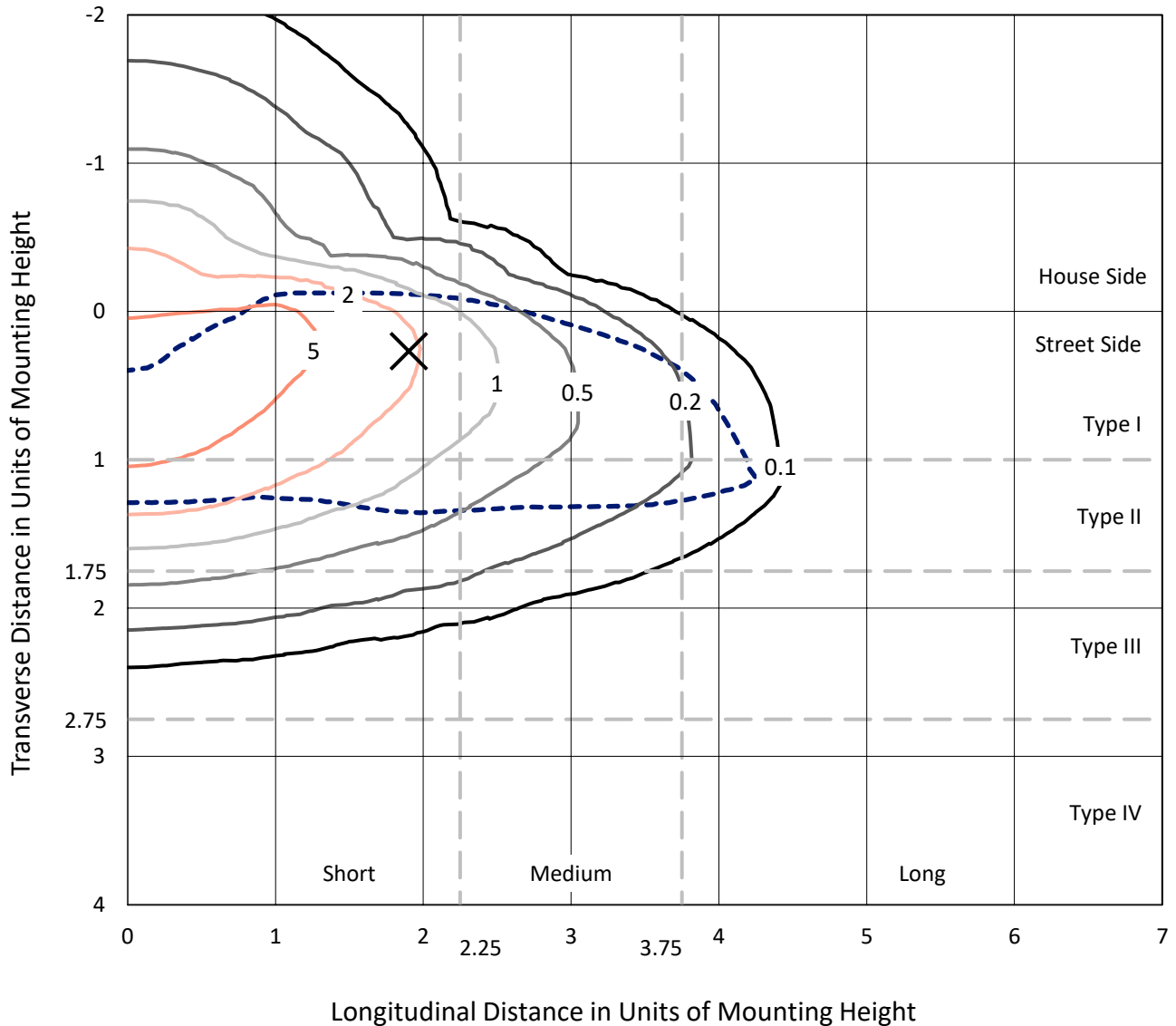
Lumens per Lamp: N/A  
Luminaire Lumens: 8327.6 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8  
Input Voltage (V): 120  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

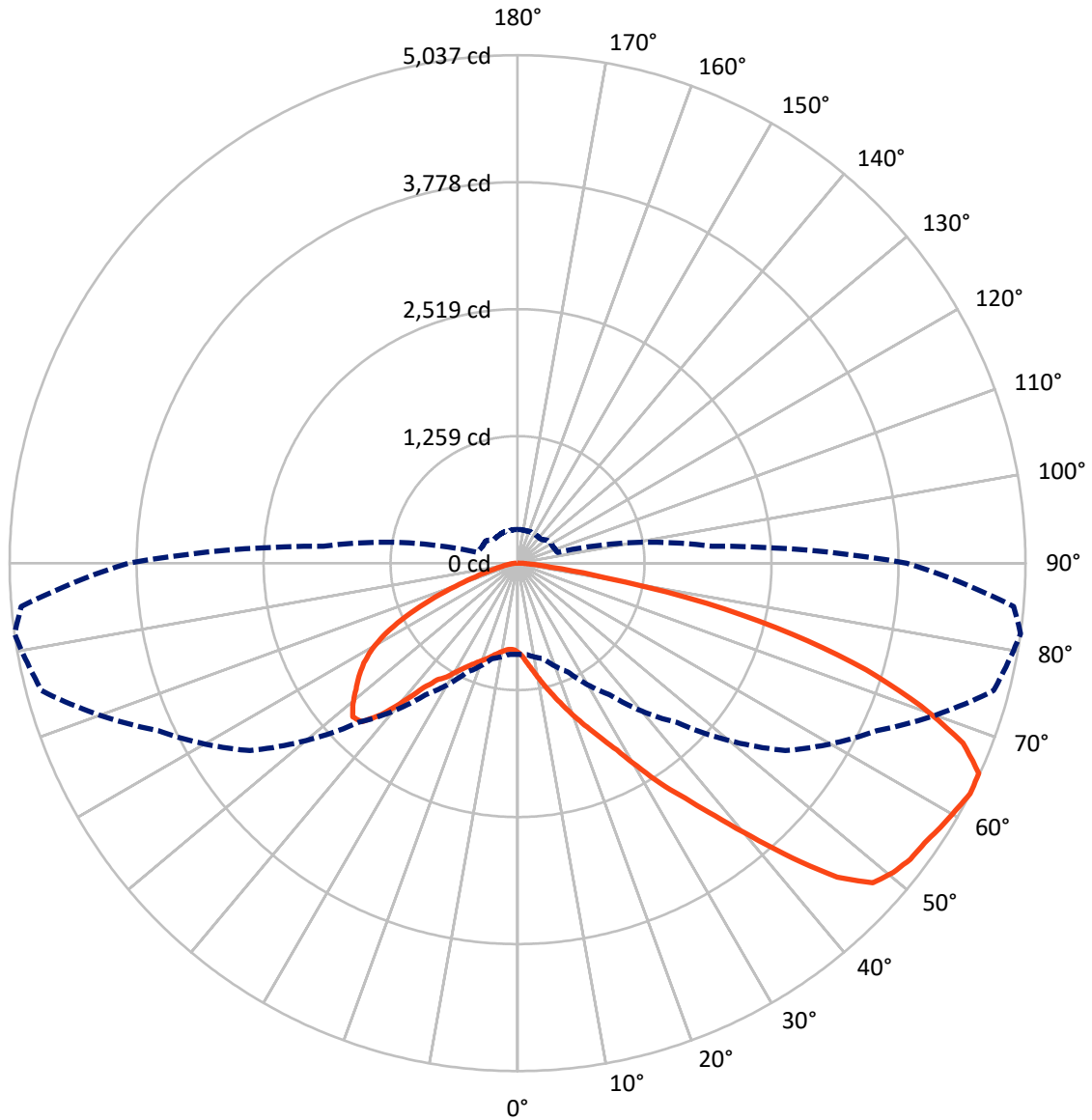
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1568.9	0.0	1568.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	6758.7	0.0	6758.7
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	8327.6	0.0	8327.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.0	1.2
10°-20°	369.6	4.4
20°-30°	765.5	9.2
30°-40°	1299.2	15.6
40°-50°	1769.2	21.2
50°-60°	1790.8	21.5
60°-70°	1411.4	16.9
70°-80°	695.3	8.3
80°-90°	128.6	1.5
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°	8327.6	100.0
0°-180°	8327.6	100.0



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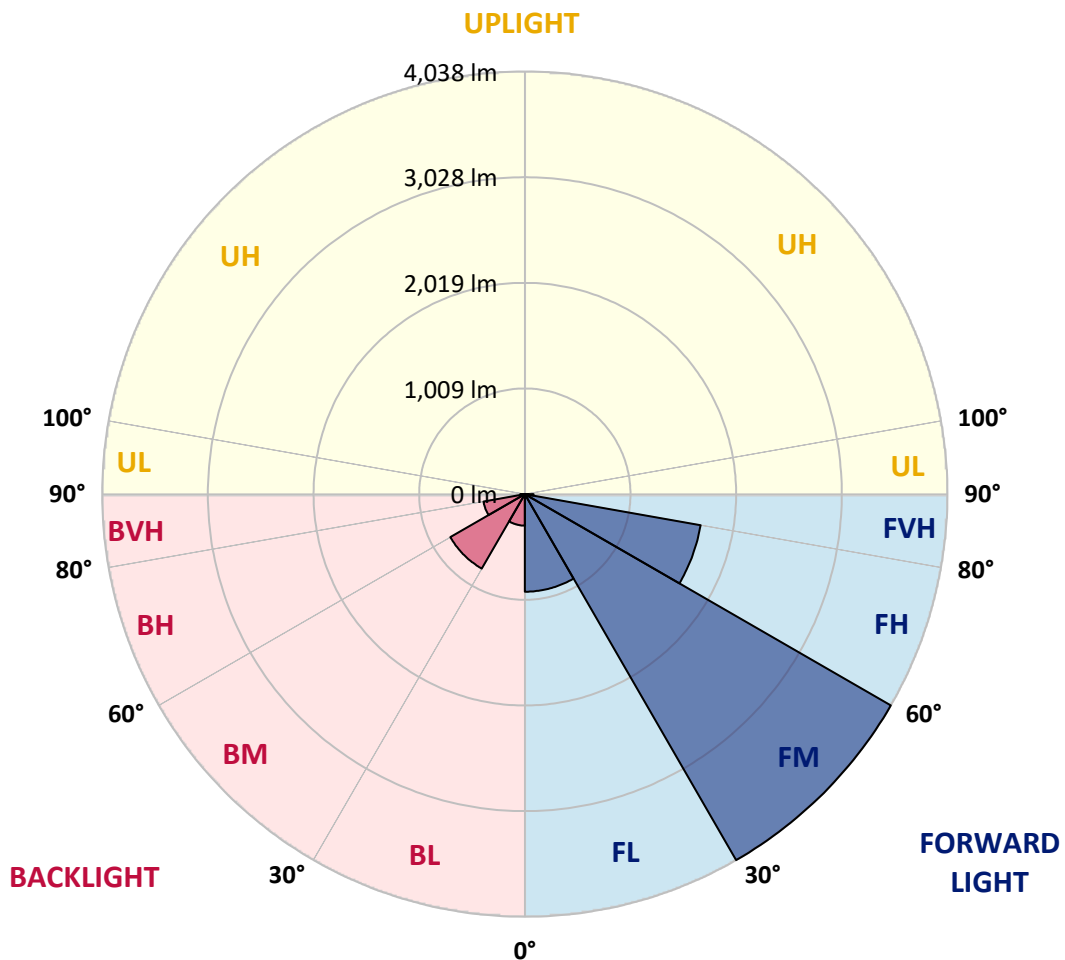
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	11.2			
FM (30°-60°)	4037.5	48.5			
FH (60°-80°)	1705.6	20.5			G1/1800
FVH (80°-90°)	83.6	1.0			G1/100
BL (0°-30°)	301.0	3.6	B1/500		
BM (30°-60°)	821.8	9.9	B1/1000		
BH (60°-80°)	401.0	4.8	B1/500		G1/500
BVH (80°-90°)	45.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	1179.4	1161.4	1151.8	1141.0	1111.0	1091.8	1055.9	1013.9	965.3	924.0	916.2
5°	1428.2	1410.2	1412.6	1386.2	1342.5	1301.7	1234.5	1155.4	1063.1	992.3	967.7
7.5°	1603.9	1584.1	1588.9	1578.1	1542.7	1497.8	1412.6	1310.7	1175.8	1070.9	1031.3
10°	1721.4	1723.8	1727.4	1723.2	1700.4	1668.6	1584.1	1471.4	1303.5	1163.8	1109.8
12.5°	1854.5	1861.1	1859.9	1861.7	1849.7	1824.5	1741.8	1635.7	1439.6	1263.9	1193.8
15°	2024.2	2017.6	2023.0	2030.8	2017.6	1990.0	1916.9	1791.0	1582.3	1375.4	1288.5
17.5°	2210.1	2196.3	2210.7	2202.9	2193.3	2175.3	2095.0	1960.6	1729.8	1496.0	1394.0
20°	2370.8	2361.8	2369.6	2370.8	2372.6	2369.0	2286.2	2143.5	1884.5	1627.3	1508.0
22.5°	2551.2	2547.0	2545.8	2546.4	2548.2	2552.4	2496.1	2343.8	2056.0	1765.2	1630.9
25°	2803.7	2799.5	2771.9	2741.3	2723.3	2736.5	2707.1	2571.0	2245.4	1919.9	1765.8
27.5°	3086.7	3080.1	3043.5	2966.2	2908.6	2918.2	2915.2	2821.6	2463.7	2097.4	1927.7
30°	3380.5	3364.3	3313.9	3205.4	3114.8	3098.1	3106.5	3075.3	2738.3	2333.0	2153.1
32.5°	3642.5	3612.5	3545.9	3436.2	3328.3	3279.7	3280.9	3294.7	3036.9	2607.6	2389.3
35°	3802.6	3782.8	3733.0	3622.1	3501.6	3469.2	3460.2	3529.2	3310.9	2861.8	2601.0
37.5°	3888.9	3869.7	3816.4	3727.0	3635.9	3622.7	3639.5	3746.2	3622.1	3179.0	2888.8
40°	3873.3	3852.9	3818.2	3755.8	3695.8	3706.0	3780.4	3945.3	3962.1	3558.5	3298.9
42.5°	3745.0	3723.4	3720.4	3716.2	3688.1	3733.0	3867.3	4091.0	4274.4	3996.8	3795.4
45°	3518.4	3505.2	3520.8	3592.7	3628.1	3715.0	3908.1	4161.7	4549.1	4442.3	4264.9
47.5°	3231.2	3223.4	3258.7	3372.7	3487.2	3659.9	3935.1	4180.9	4737.9	4737.9	4572.4
50°	2909.8	2906.8	2953.6	3119.0	3298.3	3558.5	3932.1	4198.9	4820.7	4824.9	4681.0
52.5°	2461.3	2476.9	2601.6	2819.9	3063.3	3399.7	3890.1	4249.3	4867.4	4877.0	4753.5
55°	1944.5	1959.4	2147.7	2441.5	2753.3	3206.6	3764.8	4234.3	4876.4	4898.0	4794.9
57.5°	1552.3	1555.3	1672.8	2021.8	2407.9	2959.6	3620.3	4134.7	4850.0	4944.2	4858.4
60°	1214.8	1224.4	1302.9	1579.3	2007.4	2641.2	3459.0	4036.4	4865.0	4988.0	4916.0
62.5°	904.8	907.2	980.3	1194.4	1594.9	2235.3	3240.2	3931.5	4886.0	5037.1	4939.4
65°	589.4	588.8	659.5	852.6	1191.4	1797.0	2896.6	3767.2	4887.8	5026.3	4832.1
67.5°	374.7	377.1	407.7	529.4	797.4	1356.3	2428.9	3462.0	4802.7	4764.9	4441.1
70°	304.0	304.6	314.2	346.0	485.7	927.0	1825.7	2984.7	4533.5	4243.9	3860.1
72.5°	271.0	271.6	276.4	280.0	323.8	557.0	1198.0	2423.5	4055.0	3617.3	3202.4
75°	243.4	243.4	246.4	242.8	265.6	349.6	679.9	1822.1	3339.7	2816.9	2419.3
77.5°	213.5	212.9	212.9	211.1	229.6	255.4	340.6	1271.7	2405.5	1921.1	1569.1
80°	181.1	179.9	181.7	180.5	198.5	193.7	198.5	784.9	1304.1	880.8	667.9
82.5°	140.9	140.9	146.3	147.5	163.7	140.3	139.7	372.3	495.3	329.2	246.4
85°	73.7	82.7	111.5	116.3	123.5	88.1	102.5	173.9	198.5	125.9	89.9
87.5°	22.2	23.4	68.4	76.7	76.1	44.4	63.0	83.9	92.9	55.8	36.6
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°	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6	885.6
2.5°	896.4	875.4	831.0	791.5	761.5	732.7	712.9	702.7	689.5	691.3	687.1
5°	924.0	880.8	802.2	738.7	696.1	663.7	644.0	633.8	624.2	619.4	623.0
7.5°	965.3	898.2	788.5	711.7	667.3	639.8	629.0	626.0	623.6	621.8	624.8
10°	1018.7	928.8	786.1	702.1	661.3	644.6	640.4	638.6	636.2	633.8	635.6
12.5°	1073.3	962.3	794.5	704.5	670.9	658.3	652.9	650.6	644.6	641.6	642.2
15°	1141.6	1003.1	805.8	714.1	683.5	667.3	660.1	653.5	644.0	639.8	641.6
17.5°	1214.8	1051.7	821.4	723.1	688.3	668.5	654.1	644.6	635.0	629.0	629.6
20°	1297.5	1099.6	835.2	726.1	685.9	658.3	641.0	629.6	617.0	610.4	608.6
22.5°	1383.2	1150.0	846.0	723.7	672.7	641.0	621.2	607.4	592.4	582.2	582.8
25°	1487.6	1218.4	855.0	715.3	655.3	618.2	596.0	578.6	563.0	553.4	554.0
27.5°	1612.9	1295.7	865.8	702.1	634.4	593.6	567.8	550.4	535.4	526.4	525.2
30°	1780.2	1396.4	877.8	685.9	608.0	566.6	541.4	523.4	509.0	500.7	500.7
32.5°	1968.4	1519.3	886.2	666.7	578.6	537.8	515.0	500.7	489.9	478.5	477.3
35°	2132.1	1614.7	912.0	651.7	552.8	510.8	495.3	485.1	468.9	458.1	456.3
37.5°	2372.6	1782.6	988.1	647.6	521.6	489.9	486.9	467.7	449.1	428.7	426.9
40°	2759.9	2073.4	1076.9	627.2	489.3	478.5	475.5	449.7	405.9	393.3	390.9
42.5°	3252.8	2423.5	1086.4	567.8	466.5	468.9	459.9	409.5	390.3	380.7	378.3
45°	3697.6	2707.7	1031.9	507.2	449.7	454.5	435.9	394.5	383.7	374.7	372.3
47.5°	3947.7	2795.3	928.8	461.7	437.1	441.9	397.5	387.3	376.5	367.5	365.1
50°	4017.8	2719.1	808.8	435.3	427.5	429.3	387.3	381.3	371.7	364.5	361.0
52.5°	4031.6	2605.2	697.9	419.7	420.3	404.1	378.3	373.5	367.5	356.2	352.0
55°	4037.6	2502.7	598.4	410.1	415.5	371.7	368.7	365.1	360.4	348.4	346.0
57.5°	4053.2	2371.4	520.4	402.9	409.5	356.8	358.0	355.6	349.6	344.2	343.0
60°	4008.8	2189.7	460.5	395.7	401.1	344.2	345.4	346.6	341.2	340.0	339.4
62.5°	3860.1	1931.9	409.5	386.1	383.7	331.6	331.6	336.4	331.6	333.4	333.4
65°	3553.7	1603.3	363.9	368.1	356.8	317.8	317.2	325.6	318.4	326.2	326.8
67.5°	3031.5	1213.6	317.2	340.0	328.6	303.4	305.8	312.4	302.8	319.0	319.0
70°	2399.5	825.6	268.6	300.4	299.8	287.2	295.0	294.4	283.6	307.6	303.4
72.5°	1787.4	530.0	218.8	251.8	262.0	269.8	284.2	271.6	261.4	275.2	262.6
75°	1248.9	332.2	172.7	199.1	218.2	250.6	271.0	245.8	230.8	226.6	223.0
77.5°	747.7	212.3	136.1	151.7	170.3	227.8	254.2	218.8	196.1	193.7	186.5
80°	344.8	138.5	103.7	113.3	121.1	195.5	231.4	187.1	159.5	157.1	148.7
82.5°	155.9	91.1	77.3	80.9	81.5	155.3	195.5	148.1	121.7	197.3	170.9
85°	72.5	58.8	50.4	48.0	48.6	103.7	142.1	101.9	138.5	107.9	82.1
87.5°	31.2	30.0	25.8	20.4	18.6	22.2	54.6	42.6	60.6	24.0	16.2
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)