

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: P676787

Luminaire Tested: **CCW-SA-1E-850-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676787  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-850-U-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

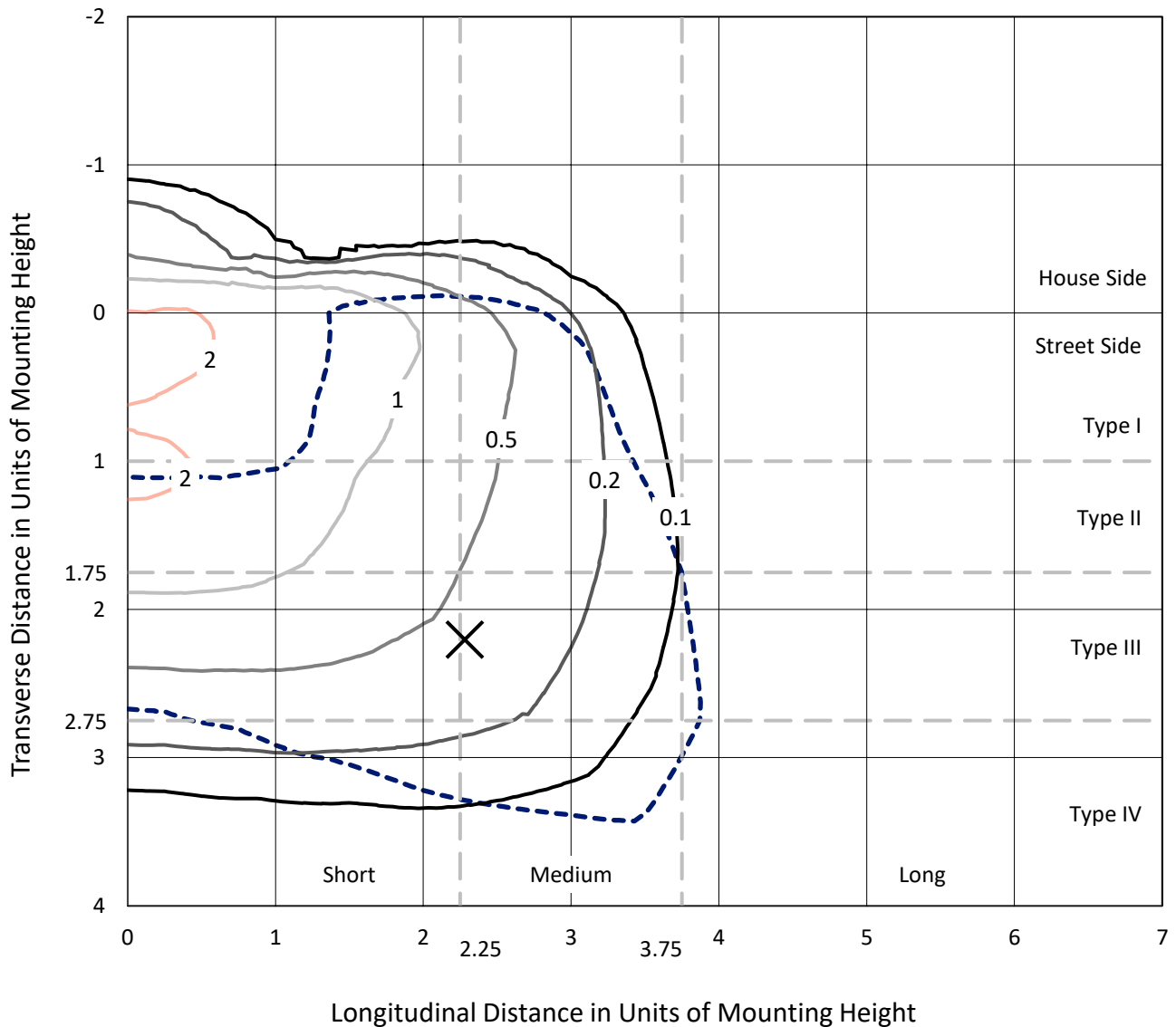
Lumens per Lamp: N/A  
Luminaire Lumens: 4304.4 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

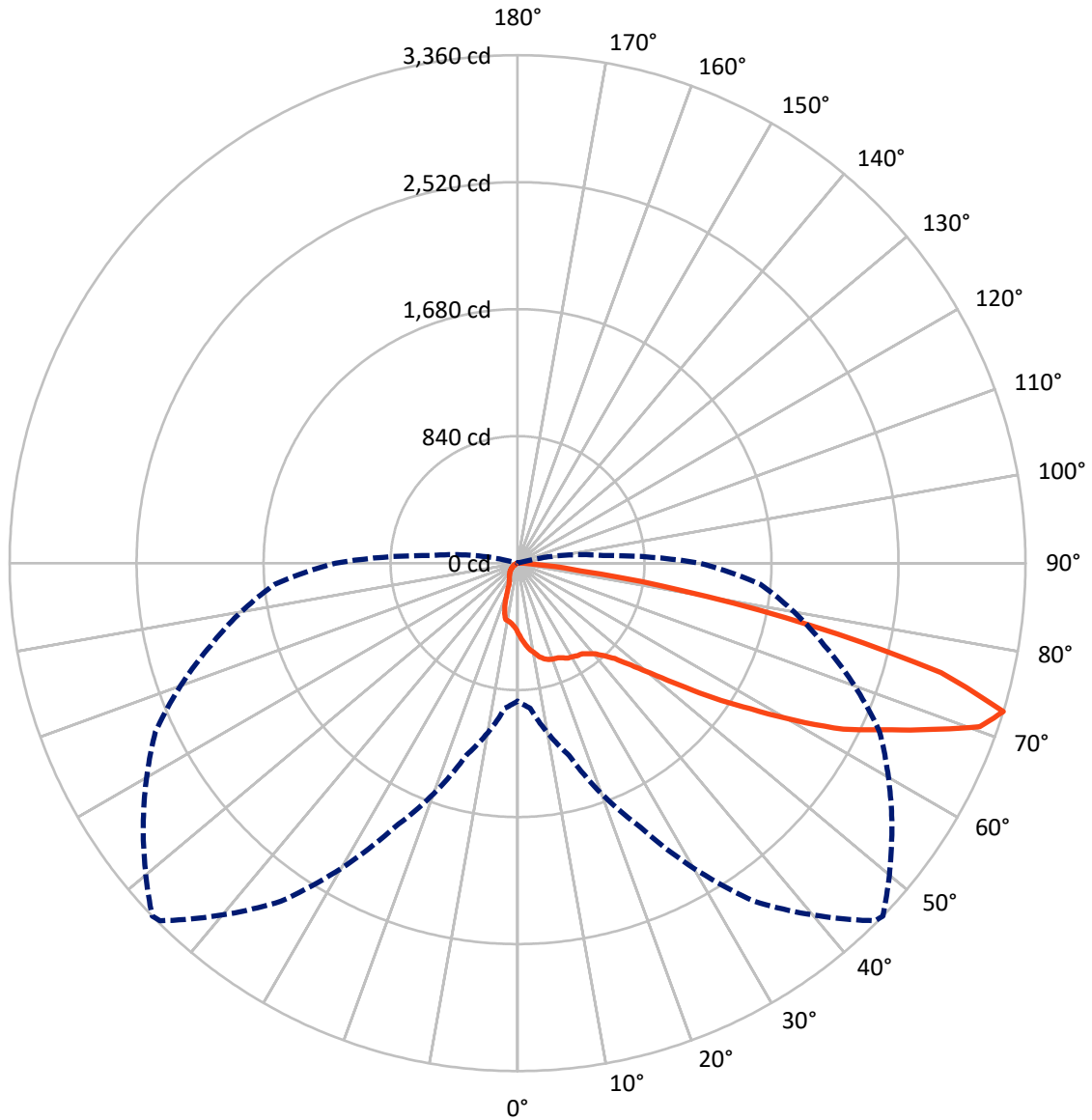
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P676787  
CATALOG NUMBER: CCW-SA-1E-850-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P676787

CATALOG NUMBER: CCW-SA-1E-850-U-T4W-HSS

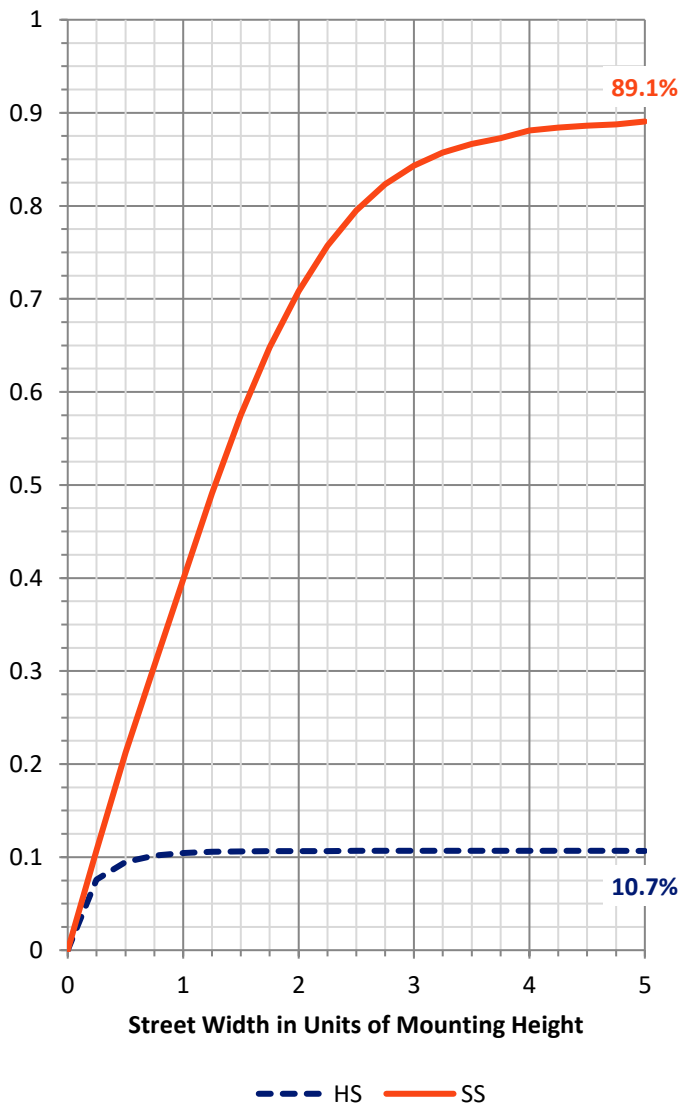
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	463.4	0.0	463.4
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	3840.9	0.0	3840.9
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	4304.4	0.0	4304.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	1.1
10°-20°	139.0	3.2
20°-30°	217.6	5.1
30°-40°	304.8	7.1
40°-50°	502.6	11.7
50°-60°	903.3	21.0
60°-70°	1309.2	30.4
70°-80°	817.1	19.0
80°-90°	64.8	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°	4304.4	100.0
0°-180°	4304.4	100.0

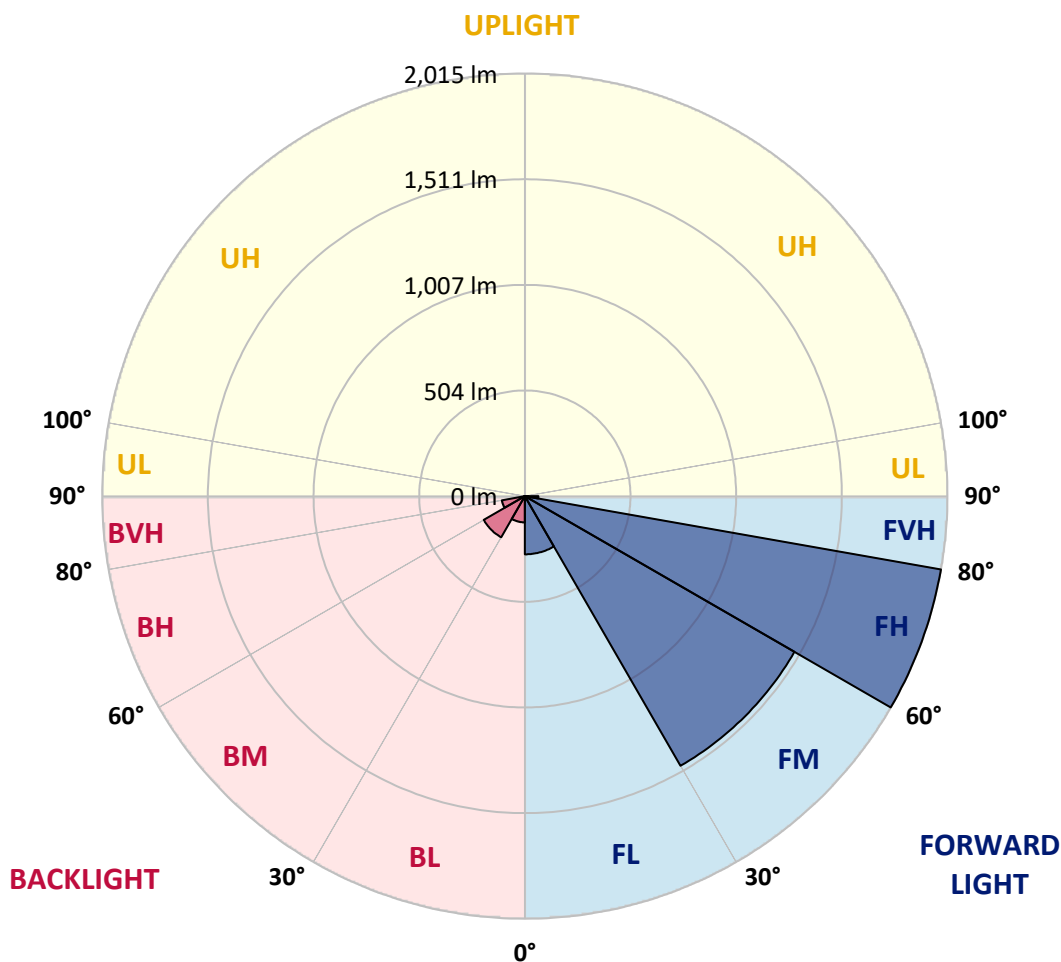


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	277.4	6.4			
FM (30°-60°)	1484.2	34.5			
FH (60°-80°)	2014.9	46.8			G2/5000
FVH (80°-90°)	64.4	1.5			G1/100
BL (0°-30°)	125.2	2.9	B1/500		
BM (30°-60°)	226.4	5.3	B1/1000		
BH (60°-80°)	111.4	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
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°	46°	55°	65°	75°	85°
0°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	514.9	512.7	516.0	514.9	501.8	503.9	502.8	494.1	478.7	469.9	464.4
5°	574.2	579.7	575.3	565.4	557.7	542.4	540.2	525.9	501.8	486.4	469.9
7.5°	635.7	635.7	626.9	611.5	595.1	578.6	576.4	552.3	531.4	505.0	482.0
10°	681.8	676.3	669.7	653.3	634.6	612.6	601.7	584.1	561.0	529.2	499.6
12.5°	722.4	713.7	702.7	678.5	656.6	632.4	634.6	606.1	590.7	562.1	518.2
15°	745.5	737.8	727.9	706.0	671.9	660.9	656.6	639.0	611.5	583.0	541.3
17.5°	751.0	745.5	732.3	703.8	685.1	671.9	670.8	650.0	637.9	613.7	567.6
20°	740.0	730.1	720.2	701.6	684.0	679.6	676.3	676.3	660.9	629.1	584.1
22.5°	721.3	710.4	704.9	693.9	679.6	678.5	680.7	678.5	666.4	645.6	601.7
25°	707.1	701.6	692.8	689.5	680.7	697.2	693.9	690.6	687.3	663.1	629.1
27.5°	711.5	710.4	703.8	690.6	684.0	701.6	711.5	712.6	711.5	687.3	654.4
30°	713.7	708.2	701.6	698.3	700.5	718.0	718.0	742.2	732.3	708.2	679.6
32.5°	738.9	735.6	713.7	706.0	707.1	727.9	729.0	753.2	749.9	733.4	701.6
35°	792.7	770.7	738.9	716.9	716.9	744.4	735.6	770.7	779.5	753.2	716.9
37.5°	872.8	856.4	799.3	749.9	731.2	751.0	759.8	779.5	805.9	782.8	747.7
40°	1032.0	1028.8	947.5	841.0	767.4	785.0	788.3	819.1	836.6	804.8	794.9
42.5°	1264.8	1248.3	1172.6	1004.6	833.3	825.6	837.7	857.5	899.2	872.8	848.7
45°	1492.1	1484.4	1408.6	1220.9	953.0	906.9	900.3	935.4	996.9	968.4	949.7
47.5°	1656.8	1641.4	1598.6	1440.5	1128.7	1002.4	1006.8	1041.9	1119.9	1097.9	1103.4
50°	1783.0	1775.3	1730.3	1643.6	1350.4	1152.8	1144.0	1179.2	1284.6	1298.8	1314.2
52.5°	1921.4	1935.6	1875.3	1801.7	1612.8	1354.8	1335.1	1347.2	1483.3	1516.2	1559.1
55°	2054.2	2077.3	2016.9	2007.0	1887.3	1578.8	1575.5	1547.0	1722.6	1727.0	1750.1
57.5°	2141.0	2133.3	2128.9	2182.7	2161.8	1835.7	1819.3	1790.7	1949.9	1921.4	1990.5
60°	2147.5	2169.5	2243.1	2375.9	2413.2	2137.7	2113.5	2035.5	2146.4	2078.4	2210.1
62.5°	2196.9	2214.5	2350.7	2534.0	2582.3	2403.4	2419.8	2222.2	2314.4	2260.6	2453.9
65°	2071.8	2126.7	2400.1	2657.0	2804.1	2672.3	2655.9	2462.6	2486.8	2436.3	2694.3
67.5°	1958.7	1979.6	2265.0	2694.3	2979.8	2942.4	2935.8	2675.6	2664.7	2571.3	2762.4
70°	1592.0	1617.2	1899.4	2503.3	3039.1	3257.5	3242.2	2974.3	2785.4	2497.8	2413.2
72.5°	912.4	962.9	1316.4	1928.0	2730.5	3345.4	3359.6	3022.6	2642.7	2100.3	1611.8
75°	298.6	312.9	546.8	1092.4	2042.1	2918.3	2893.0	2597.7	2132.2	1386.7	727.9
77.5°	101.0	103.2	161.4	395.3	1132.0	1971.9	1986.1	1856.6	1309.8	576.4	200.9
80°	51.6	54.9	79.1	148.2	465.5	1073.8	1096.8	1058.4	549.0	170.2	48.3
82.5°	24.2	25.3	46.1	82.3	213.0	421.6	421.6	463.3	194.3	95.5	19.8
85°	8.8	8.8	24.2	47.2	90.0	140.5	141.6	142.7	102.1	71.4	8.8
87.5°	3.3	3.3	12.1	19.8	32.9	42.8	42.8	34.0	51.6	47.2	3.3
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°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	462.2	455.6	450.1	442.5	432.6	427.1	428.2	421.6	421.6	418.3	417.2
5°	462.2	455.6	441.4	428.2	419.4	408.4	402.9	398.5	398.5	396.4	397.4
7.5°	465.5	455.6	435.9	418.3	404.0	393.1	384.3	383.2	381.0	375.5	379.9
10°	485.3	471.0	438.1	413.9	397.4	385.4	370.0	365.6	359.0	349.1	350.2
12.5°	501.8	483.1	453.4	420.5	399.6	379.9	344.7	306.3	289.9	272.3	273.4
15°	525.9	499.6	458.9	429.3	399.6	336.0	272.3	222.9	196.5	183.4	183.4
17.5°	539.1	517.1	474.3	434.8	367.8	273.4	193.2	150.4	146.0	148.2	148.2
20°	566.5	536.9	491.9	439.2	315.1	194.3	141.6	137.2	139.4	143.8	142.7
22.5°	584.1	554.5	505.0	419.4	243.7	139.4	132.8	130.7	132.8	138.3	138.3
25°	598.4	579.7	525.9	371.1	172.4	126.3	124.1	126.3	128.5	130.7	133.9
27.5°	633.5	601.7	540.2	308.5	124.1	117.5	119.7	120.8	120.8	124.1	125.2
30°	656.6	631.3	551.2	238.2	109.8	108.7	110.9	112.0	113.1	116.4	117.5
32.5°	678.5	669.7	536.9	161.4	103.2	101.0	99.9	101.0	105.4	108.7	107.6
35°	710.4	704.9	516.0	112.0	96.6	92.2	90.0	91.1	94.4	97.7	96.6
37.5°	748.8	754.3	465.5	97.7	90.0	84.5	80.1	80.1	81.2	84.5	85.6
40°	793.8	808.1	406.2	91.1	85.6	79.1	74.7	69.2	68.1	67.0	68.1
42.5°	876.1	892.6	339.3	86.7	79.1	71.4	64.8	58.2	52.7	49.4	49.4
45°	991.4	978.2	251.4	82.3	75.8	64.8	54.9	47.2	39.5	36.2	36.2
47.5°	1150.6	1105.6	172.4	78.0	70.3	57.1	46.1	36.2	29.6	26.4	26.4
50°	1371.3	1223.1	112.0	73.6	67.0	49.4	37.3	26.4	22.0	20.9	22.0
52.5°	1579.9	1342.8	88.9	68.1	60.4	42.8	28.5	22.0	19.8	18.7	18.7
55°	1772.0	1403.1	79.1	62.6	54.9	35.1	24.2	18.7	17.6	16.5	16.5
57.5°	1934.5	1424.0	68.1	54.9	43.9	27.4	19.8	16.5	14.3	13.2	13.2
60°	2075.1	1429.5	52.7	43.9	31.8	20.9	16.5	14.3	12.1	9.9	9.9
62.5°	2187.1	1391.1	37.3	30.7	22.0	16.5	14.3	9.9	6.6	4.4	3.3
65°	2276.0	1314.2	25.3	20.9	14.3	12.1	8.8	4.4	1.1	0.0	0.0
67.5°	2171.7	1139.6	19.8	15.4	9.9	7.7	4.4	1.1	0.0	0.0	0.0
70°	1771.0	883.8	14.3	9.9	6.6	2.2	1.1	0.0	0.0	0.0	0.0
72.5°	1205.5	569.8	11.0	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	541.3	204.2	7.7	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	131.8	48.3	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.1	12.1	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.2	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)