

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: P676458

Luminaire Tested: **CCW-SA-2B-827-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676458  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-827-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T3 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

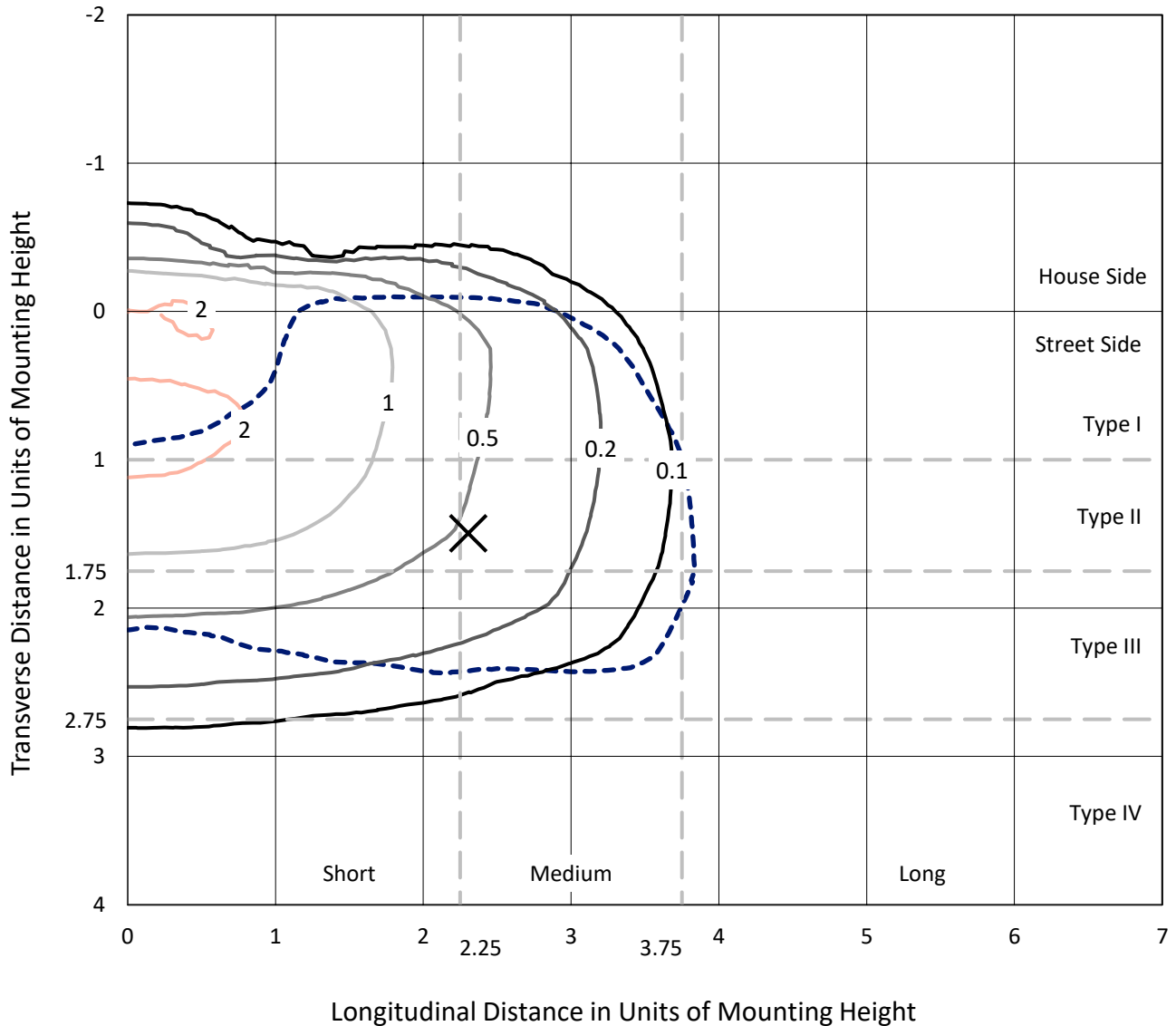
Lumens per Lamp: N/A  
Luminaire Lumens: 3657.4 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

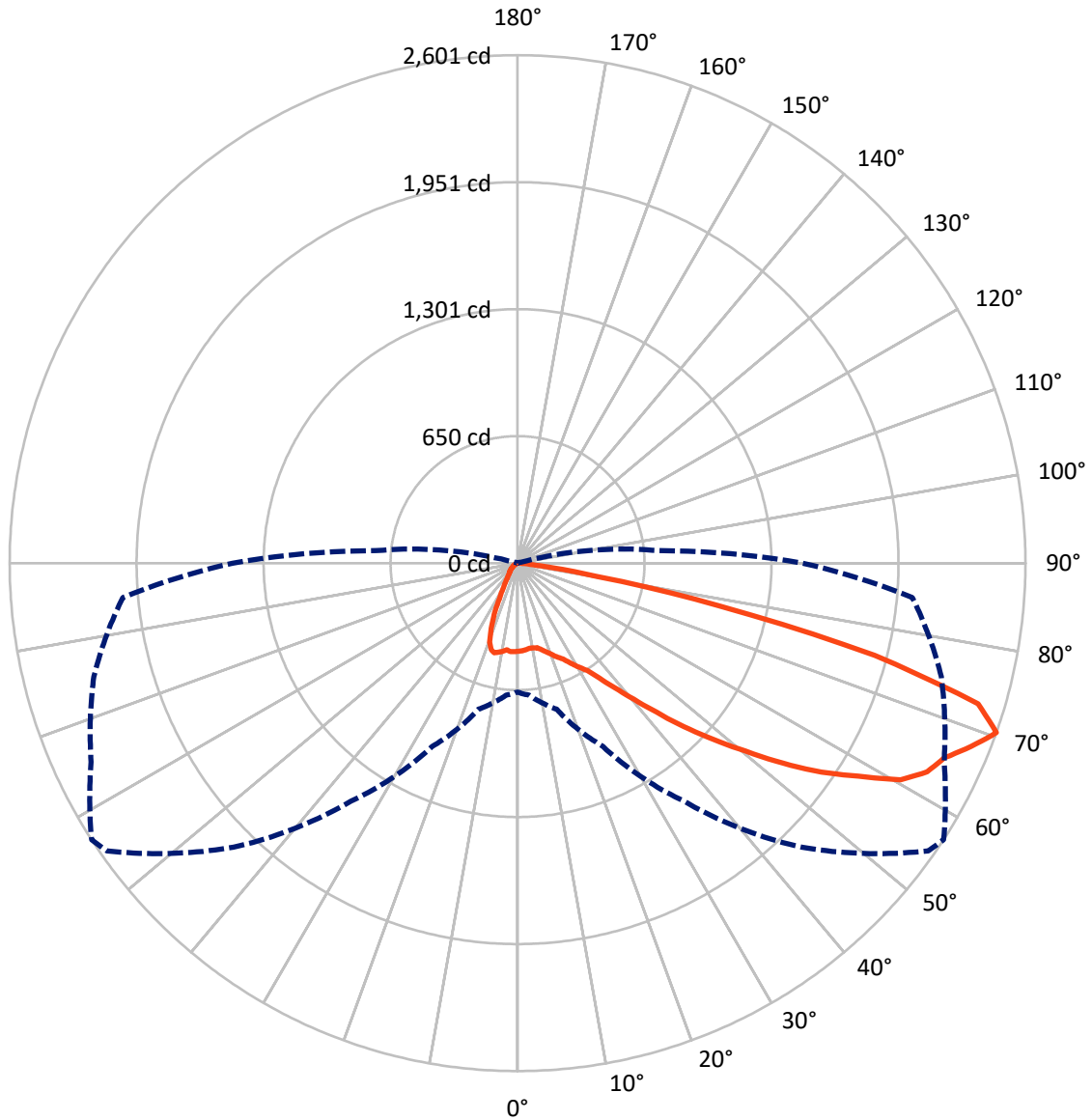
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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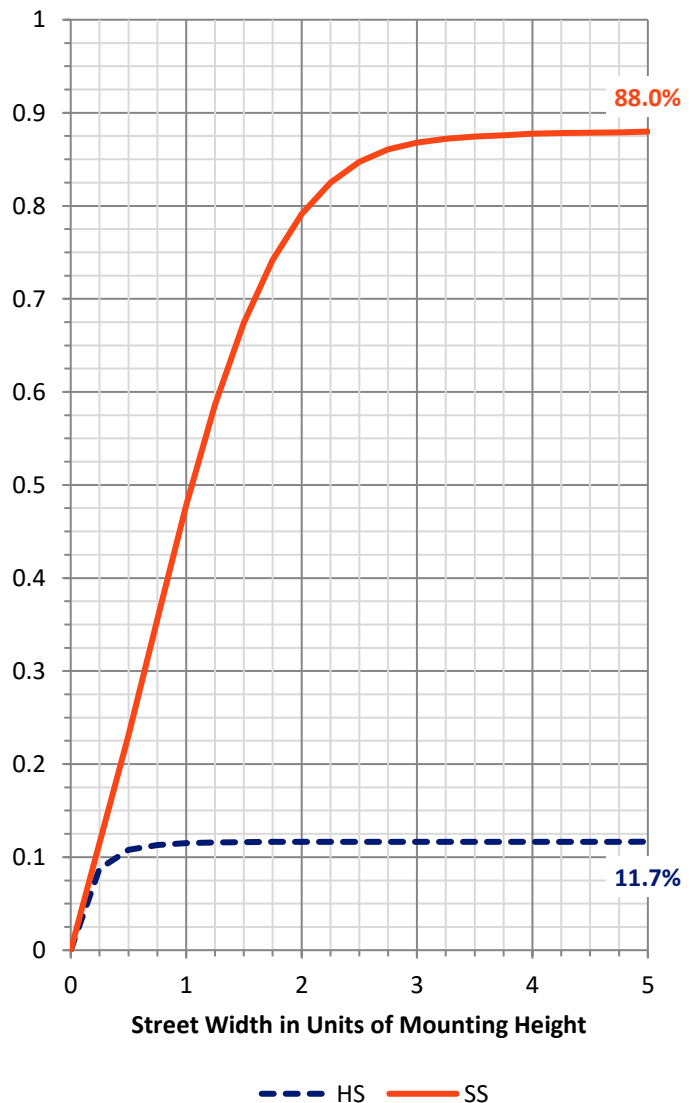
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	431.1	0.0	431.1
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3226.3	0.0	3226.3
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3657.4	0.0	3657.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	1.2
10°-20°	117.9	3.2
20°-30°	198.6	5.4
30°-40°	339.9	9.3
40°-50°	570.7	15.6
50°-60°	876.1	24.0
60°-70°	1011.5	27.7
70°-80°	477.8	13.1
80°-90°	22.7	0.6
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°	3657.4	100.0
0°-180°	3657.4	100.0



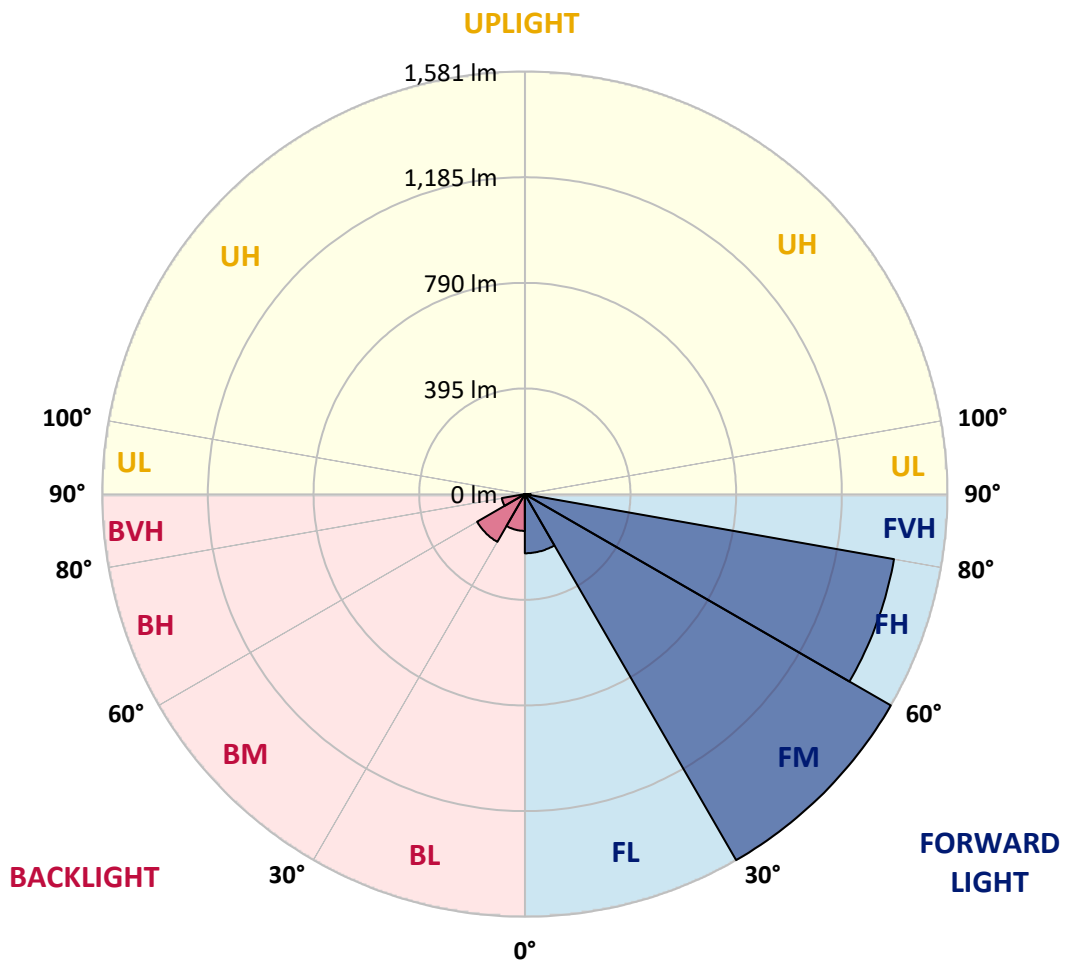
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	221.3	6.0			
FM (30°-60°)	1580.7	43.2			
FH (60°-80°)	1402.1	38.3			G1/1800
FVH (80°-90°)	22.3	0.6			G1/100
BL (0°-30°)	137.4	3.8	B1/500		
BM (30°-60°)	206.1	5.6	B0/220		
BH (60°-80°)	87.2	2.4	B0/110		G0/110
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-G1**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3
2.5°	444.7	441.9	444.7	448.5	444.7	447.5	446.6	449.4	445.7	445.7	448.5
5°	415.8	420.4	422.3	427.0	431.6	440.1	445.7	445.7	451.3	454.1	457.8
7.5°	405.5	398.0	405.5	409.2	413.9	427.9	436.3	440.1	447.5	457.8	463.4
10°	390.5	396.1	396.1	408.3	414.8	423.2	438.2	441.0	457.8	468.1	473.7
12.5°	389.6	389.6	394.3	402.7	415.8	431.6	450.3	444.7	462.5	481.2	490.5
15°	392.4	398.9	398.9	410.2	420.4	442.9	458.7	459.7	484.9	503.6	512.0
17.5°	404.6	401.8	405.5	412.0	427.9	449.4	475.6	478.4	507.3	532.6	544.7
20°	429.8	434.5	428.8	425.1	431.6	459.7	493.3	498.9	531.6	555.9	568.1
22.5°	524.1	520.4	498.0	471.8	460.6	473.7	510.1	523.2	561.5	590.5	600.8
25°	630.7	624.1	598.0	558.7	507.3	501.7	543.8	543.8	598.9	630.7	627.9
27.5°	731.6	729.7	698.9	657.8	584.9	544.7	570.9	581.1	640.9	667.1	654.9
30°	834.3	836.2	808.2	758.7	682.0	613.8	609.2	617.6	672.7	713.8	688.6
32.5°	953.9	937.1	917.5	849.3	779.2	702.6	658.7	654.9	708.2	745.6	711.9
35°	1060.4	1050.2	1028.7	967.0	886.7	795.1	733.4	724.1	753.0	802.6	766.1
37.5°	1153.9	1143.6	1115.6	1074.5	1011.9	910.0	823.1	809.1	821.3	873.6	829.7
40°	1234.2	1237.0	1229.5	1189.4	1131.4	1038.9	939.0	916.6	906.3	953.0	903.5
42.5°	1292.1	1319.2	1321.1	1271.6	1224.9	1174.4	1062.3	1044.6	1020.3	1059.5	1024.9
45°	1413.6	1398.7	1408.0	1390.2	1338.9	1331.4	1204.3	1194.0	1160.4	1173.5	1137.0
47.5°	1508.9	1506.1	1523.9	1494.9	1480.9	1481.8	1366.0	1348.2	1300.6	1324.8	1283.7
50°	1564.0	1549.1	1613.5	1636.0	1633.2	1644.4	1529.5	1514.5	1468.7	1504.2	1416.4
52.5°	1577.1	1604.2	1664.9	1746.2	1780.8	1804.1	1707.9	1702.3	1652.8	1675.2	1553.7
55°	1609.8	1636.0	1671.5	1805.1	1933.1	1938.7	1883.6	1889.2	1845.3	1839.6	1684.6
57.5°	1608.9	1603.3	1701.4	1856.5	2034.0	2114.3	2084.4	2057.3	2009.7	1954.6	1768.6
60°	1550.0	1547.2	1649.0	1863.0	2089.1	2273.2	2285.3	2253.5	2134.0	2052.7	1867.7
62.5°	1433.2	1444.4	1547.2	1806.9	2141.4	2330.2	2375.0	2353.5	2205.0	2118.1	1984.5
65°	1299.6	1276.3	1395.9	1666.8	2023.7	2313.3	2410.5	2403.0	2289.0	2189.1	2091.9
67.5°	1042.7	1053.0	1144.5	1434.2	1822.8	2251.7	2493.7	2504.9	2356.3	2251.7	2124.6
70°	660.6	679.2	774.5	1036.1	1488.3	2057.3	2568.4	2601.1	2409.6	2246.1	2029.3
72.5°	192.5	199.9	329.8	516.7	948.3	1650.0	2448.8	2465.6	2305.9	2038.7	1569.6
75°	63.5	67.3	97.2	168.2	371.9	853.0	1808.8	1888.2	1835.0	1478.1	897.9
77.5°	42.0	43.9	53.3	80.4	141.1	267.2	969.8	1054.8	1034.3	692.3	289.6
80°	30.8	31.8	39.2	54.2	86.0	96.2	357.8	413.9	399.9	158.8	57.9
82.5°	19.6	19.6	29.0	38.3	54.2	47.6	103.7	114.9	112.1	60.7	22.4
85°	13.1	14.0	21.5	29.9	29.9	22.4	29.9	34.6	37.4	32.7	10.3
87.5°	3.7	4.7	12.1	20.6	12.1	11.2	10.3	11.2	13.1	17.8	5.6
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°	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3	451.3
2.5°	451.3	455.0	454.1	455.9	453.1	450.3	453.1	453.1	453.1	450.3	448.5
5°	455.0	453.1	455.0	451.3	455.0	451.3	449.4	443.8	442.9	442.9	446.6
7.5°	460.6	462.5	454.1	454.1	445.7	447.5	442.9	443.8	441.9	439.1	437.3
10°	469.0	476.5	468.1	465.3	455.9	448.5	437.3	431.6	431.6	427.9	431.6
12.5°	492.4	489.6	484.9	475.6	464.3	449.4	422.3	395.2	372.8	356.0	364.4
15°	511.1	510.1	503.6	485.8	470.9	425.1	356.9	286.8	249.5	232.6	229.8
17.5°	540.0	537.2	526.0	502.7	453.1	352.2	244.8	185.9	149.5	141.1	138.3
20°	567.1	566.2	541.9	512.0	408.3	256.9	159.8	122.4	112.1	113.1	111.2
22.5°	596.1	591.4	562.5	500.8	325.1	171.0	114.0	109.3	105.6	104.6	106.5
25°	628.8	612.0	583.0	475.6	239.2	117.7	107.4	103.7	100.0	99.0	99.0
27.5°	641.9	630.7	592.3	414.8	151.4	102.8	100.9	96.2	91.6	88.8	87.8
30°	671.8	653.1	601.7	326.1	107.4	94.4	91.6	86.0	79.4	74.7	74.7
32.5°	701.7	679.2	602.6	228.0	89.7	85.0	80.4	72.9	64.5	59.8	60.7
35°	739.0	708.2	592.3	147.6	80.4	74.7	65.4	57.0	49.5	45.8	45.8
37.5°	802.6	773.6	550.3	97.2	72.9	63.5	54.2	44.8	38.3	35.5	35.5
40°	882.9	845.5	492.4	76.6	64.5	54.2	43.0	34.6	30.8	28.0	28.0
42.5°	979.2	932.4	406.4	68.2	57.0	44.8	33.6	27.1	23.4	23.4	22.4
45°	1075.4	998.8	318.6	62.6	50.5	37.4	26.2	21.5	19.6	18.7	18.7
47.5°	1212.7	1079.1	228.0	57.0	43.9	29.0	21.5	17.8	15.9	14.9	15.9
50°	1344.5	1154.8	161.6	51.4	36.4	23.4	17.8	15.9	14.0	13.1	13.1
52.5°	1460.3	1207.1	113.1	44.8	30.8	19.6	15.9	14.0	13.1	12.1	12.1
55°	1523.9	1189.4	77.5	38.3	25.2	16.8	14.0	12.1	11.2	10.3	10.3
57.5°	1589.3	1139.9	58.9	31.8	20.6	15.9	13.1	11.2	10.3	9.3	9.3
60°	1644.4	1103.4	45.8	25.2	16.8	13.1	11.2	9.3	8.4	7.5	6.5
62.5°	1647.2	1030.5	33.6	18.7	13.1	11.2	9.3	7.5	4.7	3.7	2.8
65°	1658.4	953.9	24.3	14.0	9.3	8.4	6.5	3.7	1.9	0.0	0.0
67.5°	1619.1	863.3	19.6	10.3	6.5	4.7	2.8	0.9	0.0	0.0	0.0
70°	1459.4	728.8	14.9	7.5	4.7	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	1044.6	473.7	10.3	5.6	1.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	556.8	201.8	7.5	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	174.7	51.4	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	38.3	14.0	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.1	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.9	0.9	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)