

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: P676465

Luminaire Tested: **CCW-SA-1D-830-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676465
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.4 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

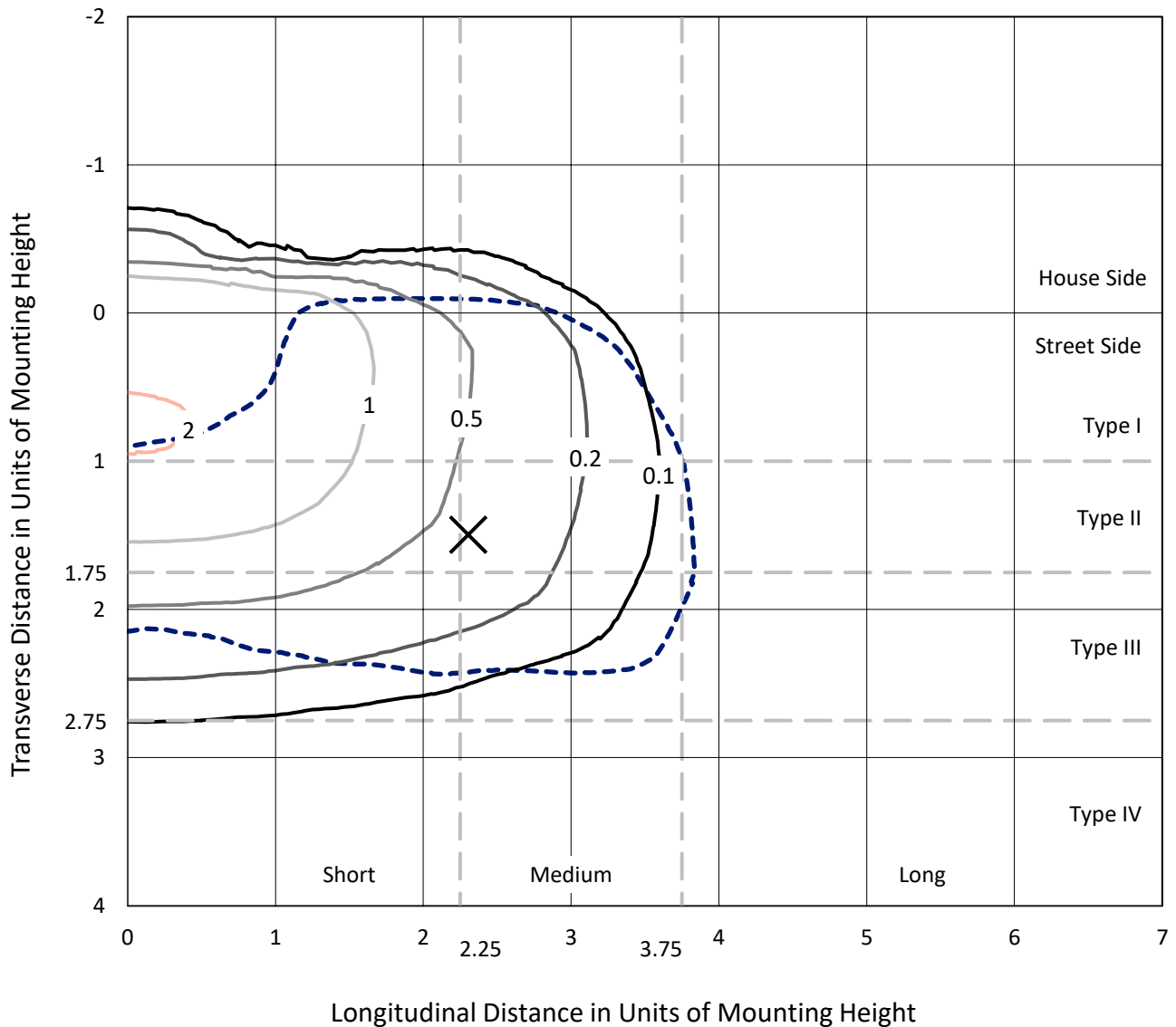
Input Watts (W): 44
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

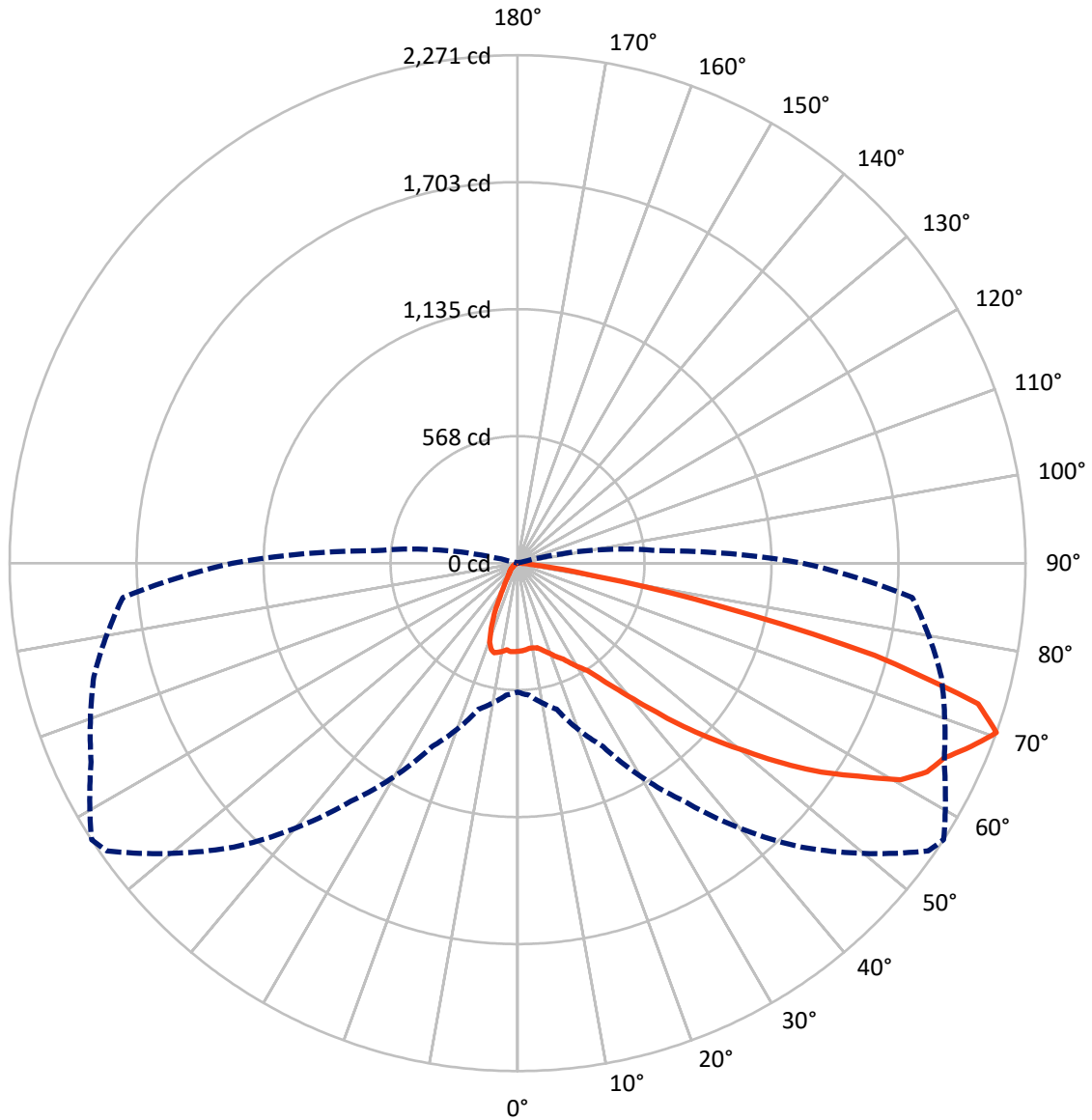
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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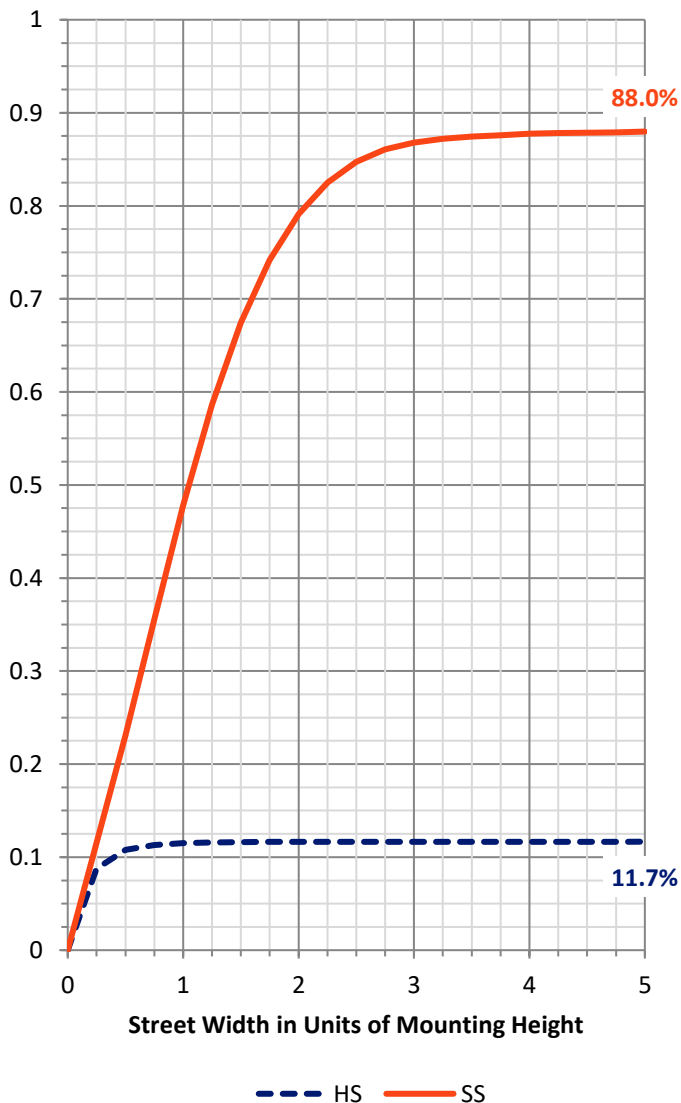
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.3	0.0	376.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2816.1	0.0	2816.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	3192.4	0.0	3192.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	1.2
10°-20°	102.9	3.2
20°-30°	173.4	5.4
30°-40°	296.7	9.3
40°-50°	498.2	15.6
50°-60°	764.7	24.0
60°-70°	882.9	27.7
70°-80°	417.0	13.1
80°-90°	19.8	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°	3192.4	100.0
0°-180°	3192.4	100.0

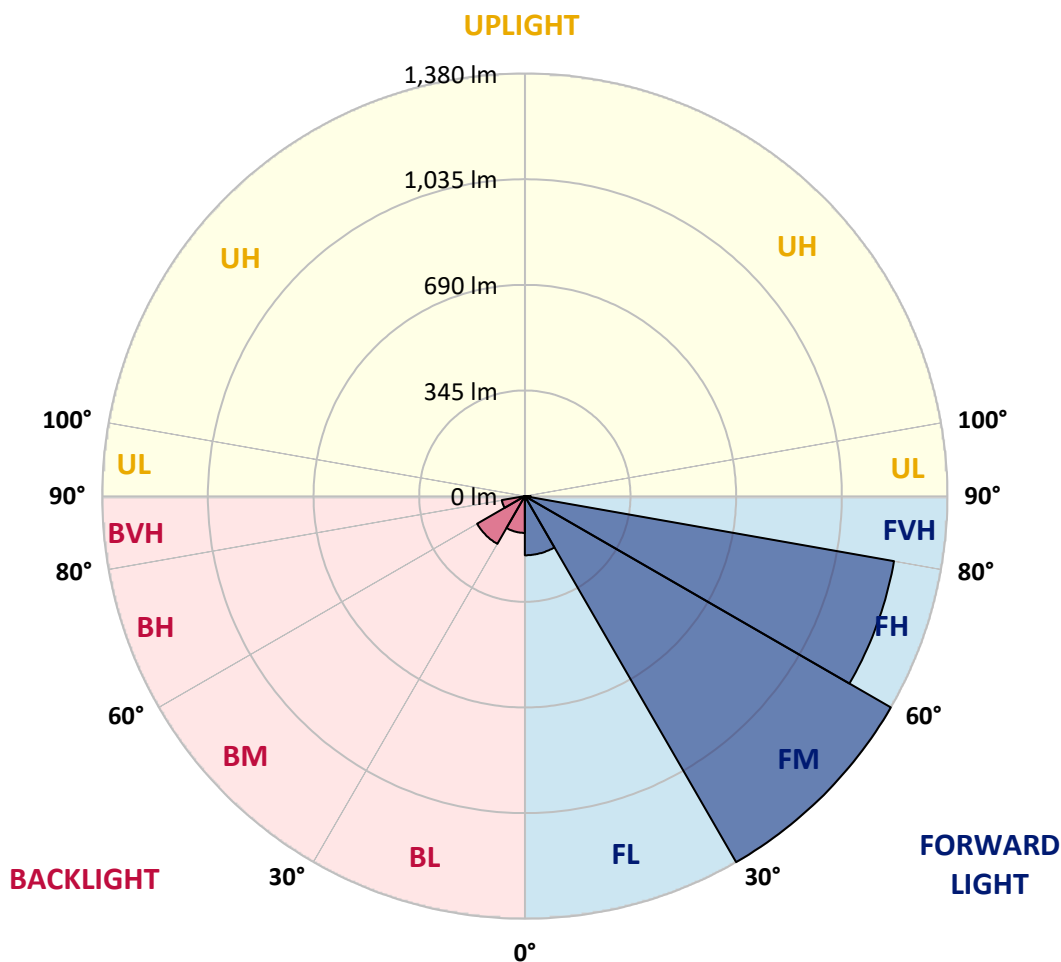


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	193.1	6.0			
FM (30°-60°)	1379.7	43.2			
FH (60°-80°)	1223.8	38.3			G1/1800
FVH (80°-90°)	19.4	0.6			G1/100
BL (0°-30°)	120.0	3.8	B1/500		
BM (30°-60°)	179.9	5.6	B0/220		
BH (60°-80°)	76.1	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°	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9
2.5°	388.2	385.7	388.2	391.5	388.2	390.6	389.8	392.3	389.0	389.0	391.5
5°	362.9	367.0	368.6	372.7	376.8	384.1	389.0	389.0	393.9	396.4	399.6
7.5°	353.9	347.4	353.9	357.2	361.3	373.5	380.9	384.1	390.6	399.6	404.5
10°	340.9	345.8	345.8	356.4	362.1	369.4	382.5	384.9	399.6	408.6	413.5
12.5°	340.1	340.1	344.2	351.5	362.9	376.8	393.1	388.2	403.7	420.0	428.2
15°	342.5	348.2	348.2	358.0	367.0	386.6	400.4	401.2	423.3	439.6	446.9
17.5°	353.1	350.7	353.9	359.7	373.5	392.3	415.1	417.6	442.8	464.9	475.5
20°	375.1	379.2	374.3	371.1	376.8	401.2	430.6	435.5	464.0	485.2	495.8
22.5°	457.5	454.3	434.7	411.8	402.1	413.5	445.3	456.7	490.1	515.4	524.4
25°	550.5	544.8	521.9	487.7	442.8	437.9	474.6	474.6	522.8	550.5	548.0
27.5°	638.6	636.9	610.0	574.1	510.5	475.5	498.3	507.3	559.5	582.3	571.7
30°	728.3	729.9	705.4	662.2	595.3	535.8	531.7	539.1	587.2	623.1	601.1
32.5°	832.7	818.0	800.9	741.3	680.2	613.3	575.0	571.7	618.2	650.8	621.4
35°	925.6	916.7	897.9	844.1	773.9	694.0	640.2	632.0	657.3	700.5	668.7
37.5°	1007.2	998.2	973.8	937.9	883.2	794.3	718.5	706.3	716.9	762.5	724.2
40°	1077.3	1079.8	1073.2	1038.2	987.6	906.9	819.6	800.0	791.1	831.8	788.6
42.5°	1127.9	1151.5	1153.2	1109.9	1069.2	1025.1	927.3	911.8	890.6	924.8	894.6
45°	1233.9	1220.9	1229.0	1213.5	1168.7	1162.1	1051.2	1042.3	1012.9	1024.3	992.5
47.5°	1317.1	1314.6	1330.1	1304.9	1292.6	1293.4	1192.3	1176.8	1135.2	1156.4	1120.5
50°	1365.2	1352.2	1408.4	1428.0	1425.6	1435.3	1335.0	1322.0	1282.0	1313.0	1236.4
52.5°	1376.6	1400.3	1453.3	1524.2	1554.4	1574.8	1490.8	1485.9	1442.7	1462.3	1356.2
55°	1405.2	1428.0	1459.0	1575.6	1687.3	1692.2	1644.1	1649.0	1610.7	1605.8	1470.4
57.5°	1404.4	1399.5	1485.1	1620.5	1775.4	1845.6	1819.5	1795.8	1754.2	1706.1	1543.8
60°	1353.0	1350.5	1439.4	1626.2	1823.5	1984.2	1994.8	1967.1	1862.7	1791.7	1630.3
62.5°	1251.0	1260.8	1350.5	1577.2	1869.2	2033.9	2073.1	2054.3	1924.7	1848.8	1732.2
65°	1134.4	1114.0	1218.4	1454.9	1766.5	2019.3	2104.1	2097.6	1998.1	1910.8	1826.0
67.5°	910.1	919.1	999.0	1251.8	1591.1	1965.4	2176.7	2186.5	2056.8	1965.4	1854.5
70°	576.6	592.9	676.1	904.4	1299.1	1795.8	2241.9	2270.5	2103.3	1960.6	1771.3
72.5°	168.0	174.5	287.9	451.0	827.8	1440.2	2137.5	2152.2	2012.7	1779.5	1370.1
75°	55.5	58.7	84.8	146.8	324.6	744.6	1578.9	1648.2	1601.7	1290.2	783.7
77.5°	36.7	38.3	46.5	70.1	123.1	233.2	846.5	920.7	902.8	604.3	252.8
80°	26.9	27.7	34.3	47.3	75.0	84.0	312.4	361.3	349.0	138.6	50.6
82.5°	17.1	17.1	25.3	33.4	47.3	41.6	90.5	100.3	97.9	53.0	19.6
85°	11.4	12.2	18.8	26.1	26.1	19.6	26.1	30.2	32.6	28.5	9.0
87.5°	3.3	4.1	10.6	17.9	10.6	9.8	9.0	9.8	11.4	15.5	4.9
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°	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9	393.9
2.5°	393.9	397.2	396.4	398.0	395.5	393.1	395.5	395.5	395.5	393.1	391.5
5°	397.2	395.5	397.2	393.9	397.2	393.9	392.3	387.4	386.6	386.6	389.8
7.5°	402.1	403.7	396.4	396.4	389.0	390.6	386.6	387.4	385.7	383.3	381.7
10°	409.4	415.9	408.6	406.1	398.0	391.5	381.7	376.8	376.8	373.5	376.8
12.5°	429.8	427.3	423.3	415.1	405.3	392.3	368.6	345.0	325.4	310.7	318.1
15°	446.1	445.3	439.6	424.1	411.0	371.1	311.5	250.4	217.7	203.1	200.6
17.5°	471.4	468.9	459.1	438.8	395.5	307.5	213.7	162.3	130.5	123.1	120.7
20°	495.0	494.2	473.0	446.9	356.4	224.3	139.5	106.8	97.9	98.7	97.0
22.5°	520.3	516.2	491.0	437.1	283.8	149.2	99.5	95.4	92.2	91.3	93.0
25°	548.9	534.2	508.9	415.1	208.8	102.8	93.8	90.5	87.3	86.4	86.4
27.5°	560.3	550.5	517.1	362.1	132.1	89.7	88.1	84.0	79.9	77.5	76.7
30°	586.4	570.1	525.2	284.6	93.8	82.4	79.9	75.0	69.3	65.2	65.2
32.5°	612.5	592.9	526.0	199.0	78.3	74.2	70.1	63.6	56.3	52.2	53.0
35°	645.1	618.2	517.1	128.9	70.1	65.2	57.1	49.7	43.2	40.0	40.0
37.5°	700.5	675.3	480.4	84.8	63.6	55.5	47.3	39.1	33.4	31.0	31.0
40°	770.7	738.1	429.8	66.9	56.3	47.3	37.5	30.2	26.9	24.5	24.5
42.5°	854.7	813.9	354.8	59.5	49.7	39.1	29.4	23.7	20.4	20.4	19.6
45°	938.7	871.8	278.1	54.6	44.0	32.6	22.8	18.8	17.1	16.3	16.3
47.5°	1058.6	941.9	199.0	49.7	38.3	25.3	18.8	15.5	13.9	13.0	13.9
50°	1173.6	1008.0	141.1	44.9	31.8	20.4	15.5	13.9	12.2	11.4	11.4
52.5°	1274.7	1053.7	98.7	39.1	26.9	17.1	13.9	12.2	11.4	10.6	10.6
55°	1330.1	1038.2	67.7	33.4	22.0	14.7	12.2	10.6	9.8	9.0	9.0
57.5°	1387.2	995.0	51.4	27.7	17.9	13.9	11.4	9.8	9.0	8.2	8.2
60°	1435.3	963.1	40.0	22.0	14.7	11.4	9.8	8.2	7.3	6.5	5.7
62.5°	1437.8	899.5	29.4	16.3	11.4	9.8	8.2	6.5	4.1	3.3	2.4
65°	1447.6	832.7	21.2	12.2	8.2	7.3	5.7	3.3	1.6	0.0	0.0
67.5°	1413.3	753.6	17.1	9.0	5.7	4.1	2.4	0.8	0.0	0.0	0.0
70°	1273.9	636.1	13.0	6.5	4.1	2.4	0.8	0.0	0.0	0.0	0.0
72.5°	911.8	413.5	9.0	4.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	486.1	176.2	6.5	3.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	152.5	44.9	4.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	33.4	12.2	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.4	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	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)