

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636761

Luminaire Tested: GWS-SA4B-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9381.1 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

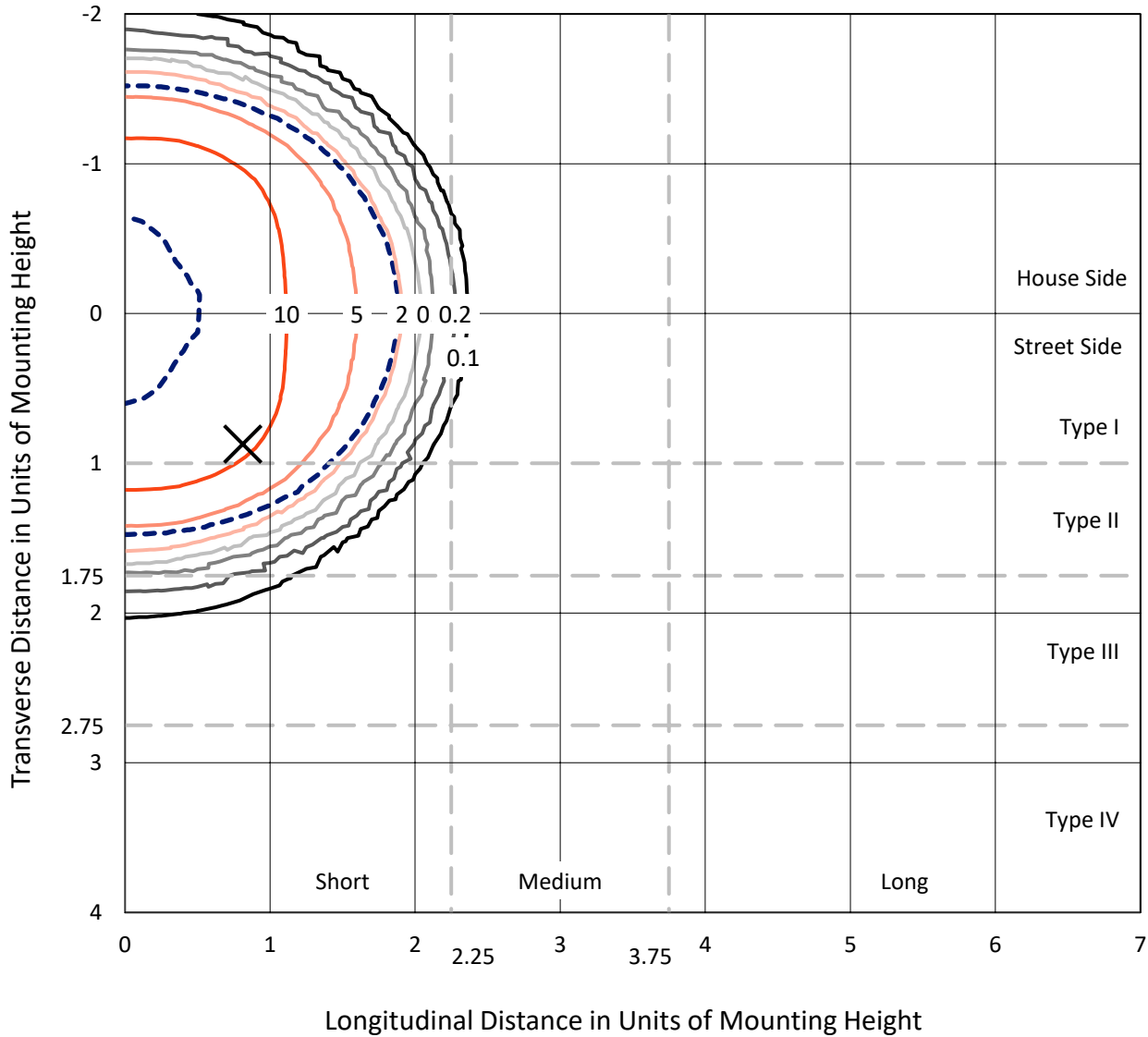
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

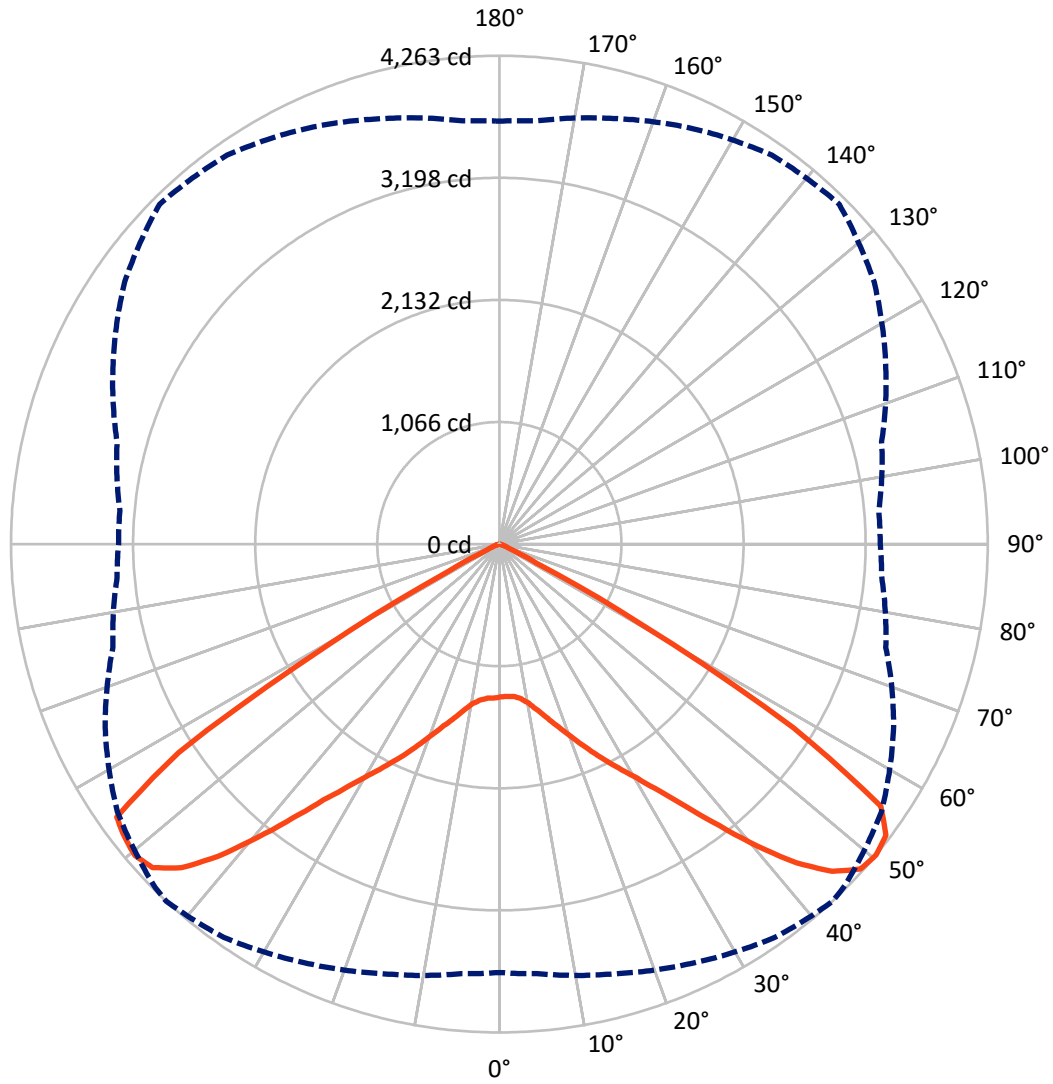
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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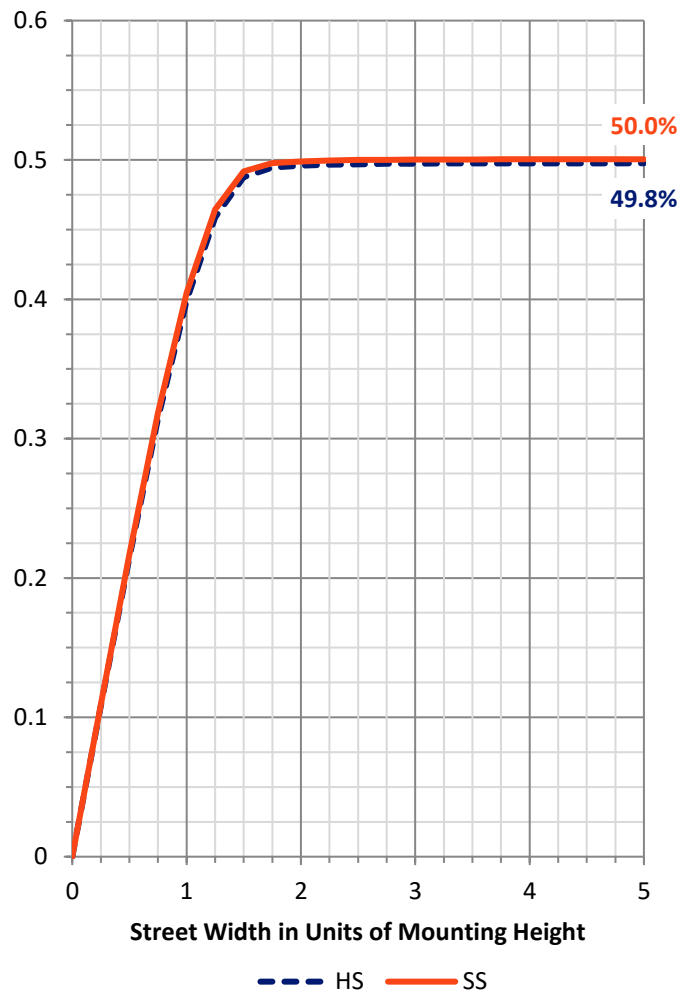
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4690.4	0.0	4690.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4690.7	0.0	4690.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	9381.1	0.0	9381.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	1.4
10°-20°	452.2	4.8
20°-30°	914.8	9.8
30°-40°	1697.3	18.1
40°-50°	2817.5	30.0
50°-60°	2875.4	30.7
60°-70°	471.5	5.0
70°-80°	20.6	0.2
80°-90°	0.3	0.0
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°	9381.1	100.0
0°-180°	9381.1	100.0

Coefficient of Utilization



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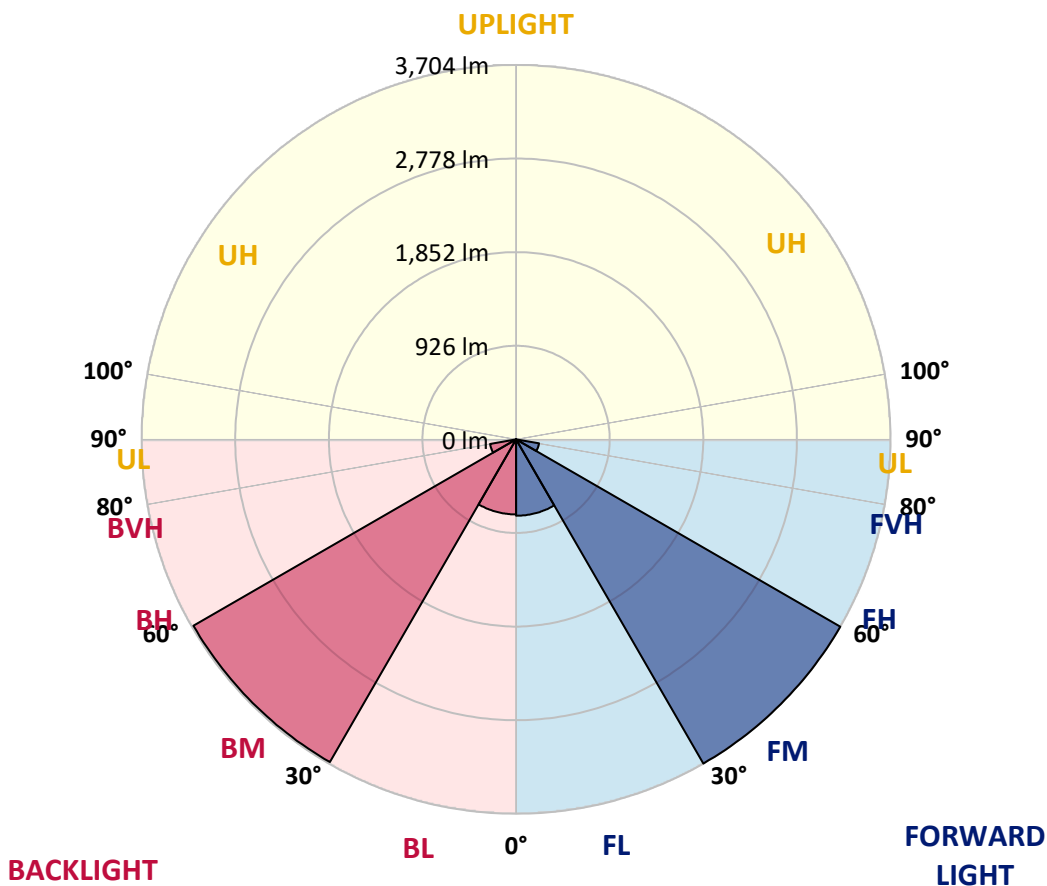
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	8.1			
FM (30°-60°)	3704.1	39.5			
FH (60°-80°)	230.7	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	742.6	7.9	B2/1000		
BM (30°-60°)	3686.1	39.3	B3/5000		
BH (60°-80°)	261.5	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1309.4	1312.5	1316.7	1320.8	1326.0	1331.2	1334.3	1343.7	1341.6	1349.9	1349.9
5°	1294.9	1298.0	1303.2	1312.5	1323.9	1335.4	1343.7	1362.3	1372.7	1389.3	1395.5
7.5°	1302.1	1306.3	1312.5	1327.1	1344.7	1362.3	1371.7	1401.8	1422.5	1453.6	1471.3
10°	1326.0	1330.2	1340.5	1365.4	1388.3	1413.2	1424.6	1463.0	1496.2	1538.7	1563.6
12.5°	1353.0	1358.2	1378.9	1416.3	1455.7	1488.9	1504.5	1547.0	1581.3	1629.0	1668.4
15°	1381.0	1389.3	1421.5	1476.5	1532.5	1577.1	1593.7	1639.4	1673.6	1724.4	1769.1
17.5°	1446.4	1455.7	1492.0	1551.2	1627.9	1679.8	1694.3	1742.1	1768.0	1802.3	1848.9
20°	1528.3	1546.0	1590.6	1662.2	1746.2	1796.0	1806.4	1853.1	1851.0	1865.5	1906.0
22.5°	1630.0	1642.5	1691.2	1776.3	1870.7	1925.7	1949.6	1969.3	1943.4	1930.9	1956.9
25°	1735.9	1750.4	1803.3	1896.7	2002.5	2065.8	2085.5	2101.1	2059.6	2012.9	2016.0
27.5°	1872.8	1883.2	1935.1	2034.7	2140.5	2212.1	2229.7	2256.7	2201.7	2127.0	2106.3
30°	2035.7	2046.1	2101.1	2205.9	2310.7	2371.9	2398.9	2432.1	2371.9	2278.5	2254.6
32.5°	2226.6	2237.0	2307.6	2415.5	2501.6	2568.0	2593.9	2629.2	2581.5	2476.7	2449.7
35°	2454.9	2461.1	2544.1	2661.4	2752.7	2817.0	2834.6	2876.1	2823.2	2718.4	2703.9
37.5°	2719.5	2726.7	2817.0	2952.9	3046.3	3117.9	3145.9	3157.3	3093.0	2975.7	2964.3
40°	3010.0	3033.9	3122.0	3268.3	3373.1	3463.4	3488.3	3449.9	3359.6	3199.9	3179.1
42.5°	3313.0	3333.7	3432.3	3591.0	3712.4	3804.8	3805.8	3722.8	3569.2	3348.2	3317.1
45°	3565.1	3573.4	3701.0	3860.8	4010.2	4075.6	4081.8	3931.3	3700.0	3434.4	3367.9
47.5°	3738.4	3751.8	3862.9	4016.4	4181.4	4240.5	4228.1	4040.3	3762.2	3490.4	3380.4
50°	3740.4	3763.3	3883.6	4032.0	4191.8	4263.4	4245.7	4071.4	3797.5	3492.5	3350.3
52.5°	3409.5	3446.8	3642.9	3857.7	4102.5	4225.0	4229.1	4111.9	3784.0	3459.3	3323.3
55°	2572.1	2612.6	2859.5	3225.8	3698.9	4040.3	4099.4	4064.2	3768.4	3473.8	3371.1
57.5°	1361.3	1330.2	1467.1	1830.3	2424.8	3028.7	3201.9	3484.2	3595.2	3491.4	3459.3
60°	296.7	316.5	421.3	567.5	946.3	1424.6	1593.7	2077.2	2652.0	2907.3	3092.0
62.5°	127.6	125.5	130.7	148.4	216.9	361.1	441.0	720.1	1136.1	1560.5	1847.9
65°	104.8	105.8	110.0	110.0	102.7	103.8	108.9	165.0	265.6	372.5	500.1
67.5°	78.9	79.9	87.2	89.2	84.0	74.7	73.7	62.3	65.4	82.0	85.1
70°	49.8	49.8	54.0	56.0	56.0	51.9	50.8	44.6	43.6	49.8	56.0
72.5°	27.0	27.0	29.1	30.1	29.1	28.0	28.0	27.0	25.9	30.1	38.4
75°	11.4	11.4	12.5	12.5	11.4	11.4	11.4	11.4	11.4	13.5	20.8
77.5°	2.1	3.1	4.2	3.1	2.1	2.1	2.1	3.1	3.1	4.2	6.2
80°	1.0	1.0	2.1	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3	1334.3
2.5°	1357.1	1345.7	1349.9	1352.0	1348.8	1346.8	1335.4	1332.2	1327.1	1318.7	1316.7
5°	1402.8	1393.5	1392.4	1386.2	1371.7	1354.0	1332.2	1322.9	1312.5	1302.1	1300.1
7.5°	1479.6	1468.2	1460.9	1440.1	1406.9	1378.9	1342.6	1322.9	1309.4	1295.9	1292.8
10°	1578.1	1564.7	1543.9	1505.5	1460.9	1420.4	1377.9	1352.0	1331.2	1312.5	1311.5
12.5°	1682.9	1668.4	1631.1	1582.3	1528.3	1491.0	1437.0	1400.7	1369.6	1341.6	1338.5
15°	1792.9	1775.3	1724.4	1666.3	1616.5	1578.1	1519.0	1460.9	1413.2	1372.7	1368.6
17.5°	1877.0	1855.2	1795.0	1751.4	1711.0	1671.5	1605.1	1528.3	1465.0	1416.3	1404.9
20°	1929.9	1909.1	1852.1	1828.2	1809.5	1781.5	1702.6	1622.8	1552.2	1492.0	1481.6
22.5°	1980.7	1955.8	1906.0	1906.0	1920.5	1909.1	1824.0	1732.7	1649.7	1580.2	1564.7
25°	2037.8	2018.1	1982.8	2011.8	2048.2	2047.1	1960.0	1845.8	1750.4	1672.6	1657.0
27.5°	2120.8	2101.1	2088.6	2143.6	2189.3	2186.2	2090.7	1967.2	1866.6	1789.8	1775.3
30°	2267.1	2248.4	2234.9	2301.3	2359.4	2337.6	2232.8	2113.5	2011.8	1924.7	1914.3
32.5°	2462.2	2442.4	2424.8	2491.2	2543.1	2515.1	2415.5	2303.4	2186.2	2101.1	2080.3
35°	2718.4	2676.9	2659.3	2738.1	2759.9	2728.8	2633.3	2534.8	2410.3	2312.7	2299.3
37.5°	2983.0	2934.2	2921.8	2990.3	3025.5	3014.1	2902.1	2799.4	2664.5	2556.6	2541.0
40°	3209.2	3164.6	3142.8	3249.7	3329.6	3336.8	3236.2	3110.6	2951.9	2839.8	2811.8
42.5°	3342.0	3303.6	3298.4	3464.4	3595.2	3688.6	3568.2	3438.5	3271.5	3144.9	3122.0
45°	3372.1	3347.2	3390.8	3608.7	3812.0	3982.2	3879.5	3742.5	3562.0	3428.1	3406.3
47.5°	3369.0	3360.7	3438.5	3683.4	3940.7	4150.3	4099.4	3944.8	3770.5	3630.5	3609.7
50°	3324.4	3325.4	3455.1	3720.7	3992.6	4195.9	4145.1	4001.9	3846.3	3708.3	3691.7
52.5°	3306.7	3300.5	3424.0	3709.3	4045.5	4175.2	4061.0	3900.2	3726.9	3556.8	3531.9
55°	3369.0	3353.4	3428.1	3700.0	4051.7	4163.8	3862.9	3514.2	3159.4	2958.1	2941.5
57.5°	3462.4	3445.8	3481.0	3631.5	3726.9	3462.4	2842.9	2280.6	1915.4	1760.8	1693.3
60°	3092.0	3080.5	3053.6	2872.0	2463.2	1858.3	1265.8	807.2	580.0	469.0	469.0
62.5°	1918.5	1902.9	1756.6	1305.3	948.3	548.9	301.9	188.8	143.2	133.8	132.8
65°	538.5	535.4	443.0	313.3	199.2	123.5	108.9	111.0	108.9	105.8	104.8
67.5°	80.9	89.2	89.2	72.6	69.5	77.8	91.3	97.5	92.3	87.2	85.1
70°	51.9	56.0	54.0	46.7	49.8	58.1	65.4	66.4	63.3	58.1	57.1
72.5°	36.3	40.5	33.2	30.1	31.1	34.2	37.4	37.4	36.3	34.2	32.2
75°	21.8	21.8	15.6	14.5	14.5	15.6	15.6	17.6	17.6	16.6	15.6
77.5°	7.3	8.3	5.2	4.2	4.2	4.2	5.2	6.2	6.2	5.2	4.2
80°	1.0	2.1	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
87.5°	0.0	0.0	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)